

SEQUENCE LISTING

<110> Frudakis, Tony N.
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 Retter, Marc W.
 Wang, Aijun
 Skeiky, Yasir A. W.
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 Day, Craig H.
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 Deng, Ta

<120> COMPOSITIONS AND METHODS FOR THE THERAPY
 AND DIAGNOSIS OF BREAST CANCER

<130> 210121.419C13

<140> US

<141> 2002-02-20

<160> 428

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 363

<212> DNA

<213> Homo sapiens

<400> 1

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cacctccagg aggcttatcg gatttacacc ctttttgacc tggcagcccc cgaaaatagc 240
catgctctta atttggcatt tgtggctcag gcagccccag atagtaaaag gaaactccaa 300
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<212> PRT

<213> Homo sapiens

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980, 982, 988, 995, 996, 1007, 1010, 1025, 1040, 1051, 1052,
1056, 1057, 1078
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<213> Homo sapiens
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<220>

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825, 829, 838, 845, 849, 852, 855, 856, 859, 874, 876, 877,
892, 902, 907, 916, 917, 938, 950, 951, 952, 953, 960

<223> n = A,T,C or G

<221> misc_feature

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1074, 1082, 1084, 1086

<223> n = A,T,C or G

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gctttaaagt actgttagtg agaaattaaa attccttcag gaggattaaa ctgccatttc 480
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<210> 5

<211> 1010

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

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424, 430, 433, 454, 463, 465, 467, 476, 497, 499, 550, 562,
564, 587, 591, 595, 597, 598, 612, 625, 631, 640, 641, 645,
648, 656, 661, 665, 666, 670, 674, 675, 681, 682, 683

<223> n = A,T,C or G

<221> misc_feature

<222> 687, 688, 692, 710, 721, 778, 788, 811, 820, 830, 860, 867,
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960, 970, 986, 990, 1000

<223> n = A,T,C or G

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aatgtcccn gaaccctctc cntnctgcc aaaacctacc taaattnctc nctangnntt 600
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ntatnntggn ccnnaaaaa nnnatcnnc cnaattgcc gaattggttn ggtttttcct 720
nctgggggaa acccttttaa tttcccccct ggccggcccc ccttttttcc ccccttnga 780
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<210> 6

<211> 950

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

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263, 267, 268, 269, 270, 271, 272, 273, 280, 281, 283, 285,
286, 287, 288, 289, 290, 291, 293, 295, 296, 300, 302, 303,
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<223> n = A,T,C or G

<221> misc_feature

<222> 326, 327, 331, 332, 339, 342, 343, 344, 346, 349, 352, 353,
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<223> n = A,T,C or G

<221> misc_feature

<222> 417, 419, 420, 423, 424, 428, 431, 433, 434, 435, 437, 438,
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<223> n = A,T,C or G

<221> misc_feature

<222> 520, 521, 524, 526, 531, 536, 538, 539, 543, 544, 548, 549,
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<221> misc_feature

<222> 625, 628, 629, 630, 632, 634, 637, 638, 641, 645, 651, 652,

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<221> misc_feature
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769, 773, 774, 775, 778, 780, 783, 785, 787, 790, 793, 797,
800, 803, 810, 812, 824, 828, 832, 836, 839, 843, 844, 846,
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<221> misc_feature
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930, 932, 935, 940
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ctgggattac aggcgtgcaa caccacaccc ggctaatttt gtatttttaa tagagatggg 180
gttttccctt gttggccann atgggtctcna acccctgacc tcnngtgatc ccccccncnn 240
nganctenna ctgctgggga tncccgnnnn nnnccctccn ncnncnnnnn ncnncntccn 300
tnntccttnc tcnnnnnnnn cnntcnntcc nncctctcnc cnnntntnt cnnncnccnn 360
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<212> DNA
<213> Homo sapiens

<220>
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890, 904, 913, 920, 926, 937, 940, 953, 957, 960, 985, 993,
994, 1000, 1012, 1044, 1060, 1063, 1080, 1081
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agaaaaattc ttctgccttg agatgtgtt aatctgtaac cctagcccca accctgtgct 180
cacagagaca tgtgtgtgtg tgactcaagg ttcaatggat ttagggctat gctttgttaa 240
aaaagtgtt gaagataata tgcttggtta aagtcacac cattctctaa tctcaagtac 300

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gactgtcccc cagcccgaca tccccagcc cgacatcccc cagcccgaca cccgaaaagg 480
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tctacttact gagaatagga gaaaacatcc ttagggctgg aggtgagaca ccctggcggc 660
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cctattggcc tgcccatccc ctccccaaan ggtgaaaana tgttentaaa tncgagggaa 840
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aacntgtccc ggntccttcn ttccncccc cttcccnngan aaaaaacccc gtntganggn 960
gccccctcaa attataacct ttccnaaaca aannggttcn aaggtgggtt gnttcgggtg 1020
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<210> 8

<211> 1177

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

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524, 537, 556, 557, 579, 583, 590, 591, 598, 623, 625, 648,
700, 703, 719, 738, 742, 746, 749, 751, 752, 800, 808, 820,
821, 824, 835, 838, 845, 851, 856, 864, 865, 879, 888

<223> n = A,T,C or G

<221> misc_feature

<222> 911, 920, 926, 935, 945, 950, 952, 956, 969, 972, 977, 981,
992, 999, 1023, 1024, 1032, 1038, 1039, 1040, 1062, 1069,
1075, 1084, 1089, 1104, 1119, 1123, 1131, 1143, 1146, 1152,
1165, 1169, 1172, 1176

<223> n = A,T,C or G

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gctgcaggaa ttcaattcan ccttactnat accccaacn ngngggggg ggcngtncc 840
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<210> 9
<211> 1146
<212> DNA
<213> Homo sapiens

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842, 846, 860, 866, 886, 889, 911, 939, 945, 955, 960, 982,
999, 1002, 1005, 1009, 1010, 1033, 1047, 1049, 1055, 1058,
1069, 1074, 1079, 1081, 1104, 1105, 1111, 1116, 1118
<223> n = A,T,C or G

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<221> misc_feature
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<223> n = A,T,C or G

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agactccatc agtgagggtca aagcctgggg cttttcagag aaggaggat tatgggtttt 180
ccaattatac aagtcagaag tagaaagaag ggacataaac caggaagggg gtggagcact 240
catcaccacag agggacttgt gcctctctca gtggtagtag aggggctact tcctcccacc 300
acggttgcaa ccaagaggca atgggtgatg agcctacagg ggacatancc gaggagacat 360
gggatgaccc taagggagta ggctggtttt aaggcgggtg gactgggtga gggaaactct 420
cctcttcttc agagagaagc agtacagggc gagctgaacc ggctgaaggt cgaggcgaaa 480
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gaagccggga atttcattaa caaccgccca cacagcttga acattgtgag gttcagtgc 660
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cntttnttaa attgaacctn aattcncccc cccaaaaaaa aaccnccng gggggcgat 900
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atagan 1146

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<210> 10
<211> 545
<212> DNA
<213> Homo sapiens

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tattggctct gagttctgag gccagttttc ttcttctgtt gagtatgcgg gattgtcagg 180
cagatctggc tgtggaaagg agactgtggg cagcaagttt agaggcgtga ctgaaagtca 240
cactgcatct tgagctgctg aatcagcttt ctggttacca cgggcaacag ccgtgttttc 300
cttttgatgt cttttacagt ggattacagc cacctgctga ggtgagtagc ccacgctcct 360

```

```

ggtagatggc tccacgtaca tgcacagtag caaaggcgta cctgctgtca gtgttaacgt 420
taatatcctt accccatcgg agagcctgag tgagggcgat caattcagcc cttttgtgct 480
gaggtgtttg ctggttaagc cctgaacca caacacatct gtctccatgg taacagctgc 540
accgg                                           545

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<210> 11
<211> 196
<212> DNA
<213> Homo sapiens

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<400> 11
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gggggatcg cttgagccca agatttcaag actagtctgg gtaacatagt gagaccctat 120
ctctacgaaa aaataaaaaa atgagcctgg tgtagtggca cacaccagct gaggagggag 180
aatcgagcct aggaga                                           196

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<210> 12
<211> 388
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> 82, 162, 287
<223> n = A,T,C or G

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tgacaccaac ttacactgtg gnetccaata aactgcttct ttcctattcc ctctctatta 120
aataaaataa ggaaaacgat gtctgtgtat agccaagtca gntatcctaa aaggagatac 180
taagtgacat taaatatcag aatgtaaaac ctgggaacca ggttcccagc ctgggattaa 240
actgacagca agaagactga acagtactac tgtgaaaagc ccgaagnngc aatatgttca 300
ctctaccgtt gaaggatggc tgggagaatg aatgctctgt ccccagtc ccagctcact 360
tactatacct cctttatagc ctaggaga                                           388

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<210> 13
<211> 337
<212> DNA
<213> Homo sapiens

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<400> 13
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taccctgaaa aatatgaggg aaatatatga aacagggagg caatgttcag ataattgatc 120
acaagatatg atttctacat cagatgctct ttcctttcct gtttatttcc tttttatttc 180
ggttgtgggg tcgaatgtaa tagctttgtt tcaagagaga gttttggcag tttctgtagc 240
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<210> 14
<211> 571
<212> DNA
<213> Homo sapiens

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<220>

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<221> misc_feature
 <222> 435, 441, 451, 456, 462, 479, 488, 489, 509, 568
 <223> n = A,T,C or G

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 aaaatcatat ttcataatttt acgctcgagg gtttttaccg gttccttttt acactcctta 180
 aaacagtttt taagtcgttt ggaacaagat attttttctt tcctggcagc ttttaacatt 240
 atagcaaatt tgtgtctggt ggactgctgg tcactgtttc tcacagttgc aaatcaaggc 300
 atttgcaacc aagaaaaaaa aatttttttg ttttatttga aactggaccg gataaacggt 360
 gtttgagagcg gctgctgtat atagttttaa atggtttatt gcacctcctt aagttgcact 420
 tatgtggggg ggggnttttg natagaaagt ntttantcac anagtcacag ggacttttnt 480
 cttttgggna ctgagctaaa aagggtgnt tttcgggtgg gggcagatga aggctcacag 540
 gaggcctttc tcttagaggg gggaactnct a 571

<210> 15
 <211> 548
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 224, 291, 326, 376, 388, 394, 428, 433, 507, 514
 <223> n = A,T,C or G

<400> 15
 tatatatatta ataaacttaaa tatattttga tcacccactg ggggtgataag acaatagata 60
 taaaagtatt tccaaaaaagc ataaaaccaa agtatcatac caaaccaa at tcatactgct 120
 tccccacccc gcactgaaac ttcaccttct aactgtctac ctaaccaa at tctacccttc 180
 aagtcttttg tgctgtctca ctactctttt tttttttttt tttnttttg agatggagtc 240
 tggctgtgca gccaggggt ggagtacaat ggcacaacct cagctcactg naacctccgc 300
 ctcccaggtt catgagattc tctgnttca gccttcccag tagctgggac tacaggtgtg 360
 catcacattg cctggntaat cttttttngt tttngggtag agatgggggt tttacatgtt 420
 ggccaggntg gtntogaact cctgacctca agtgatccac ccacctcagg ctcccaaagt 480
 gctaggatta cagacatgag ccaactgngcc cagnctggt gcatgctcac ttctctaggc 540
 aactacta 548

<210> 16
 <211> 638
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 471, 488
 <223> n = A,T,C or G

<400> 16
 ttccggttatg cacatgcaga atattctatc ggtacttcag ctattactca ttttgatggc 60
 gcaatccgag cctatctca agatgagtat ttgaaagaa ttgatttagc gatagaccaa 120
 gctggtaagc actctgacta cacgaaattg ttcagatgtg atggatttat gacagttgat 180
 ctttggaaga gattattaag tgattatttt aaagggaatc cattaattcc agaatatctt 240
 ggtttagctc aagatgatat agaaatagaa cagaaagaga ctacaaatga agatgtatca 300

```

ccaactgata ttgaagagcc tatagtagaa aatgaattag ctgcatttat tagccttaca 360
catagcgatt ttctgatga atcttatatt cagccatcga catagcatta cctgatgggc 420
aaccttacga ataatagaaa ctgggtgcgg ggctattgat gaattcatcc ncagtaaatt 480
tggatatnac aaaatataac tcgattgcat ttggatgatg gaatactaaa tctggcaaaa 540
gtaactttgg agctactagt aacctctctt tttgagatgc aaaattttct tttagggttt 600
cttattctct actttacgga tattggagca taacggga 638

```

```

<210> 17
<211> 286
<212> DNA
<213> Homo sapiens

```

```

<400> 17
actgatggat gtcgccggag gcgaggggcc ttatctgatg ctcggtgcc tgttcgtgat 60
gtgcgcggcg attgggctgt ttatctcaaa caccgccacg gcggtgctga tggcgctat 120
tgccttagcg gcggcggaagt caatgggcgt ctaccctat ccttttgcca tgggtgggtggc 180
gatggcgggt tcggcggcgt ttatgacccc ggtctcctcg ccggttaaca ccctgggtgct 240
tggccctggc aagtactcat tttagcgattt tgtcaaaata ggcgtg 286

```

```

<210> 18
<211> 262
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 184, 234, 240
<223> n = A,T,C or G

```

```

<400> 18
tcgggtcatag cagccccctt ttctcaattt catctgtcac taccctgggtg tagtatctca 60
tagccttaca tttttatagc ctctccctg gtctgtcttt tgattttcct gcctgtaatc 120
catatcacac ataactgcaa gtaaacattt ctaaagtgtg gttatgctca tgctactcct 180
gtgncaagaa atagtttcca ttaccgtctt aataaaaattc ggatttggtc tttnctattn 240
tcactcttca cctatgaccg aa 262

```

```

<210> 19
<211> 261
<212> DNA
<213> Homo sapiens

```

```

<400> 19
tcgggtcatag caaagccagt ggtttgagct ctctactgtg taaactccta aaccaaggcc 60
atztatgata aatgggtggc ggatttttat tataaacatg tacocatgca aatttcctat 120
aactctgaga tatattcttc tacatttaaa caataaaaat aatctatttt taaaagccta 180
atttgcgtag ttaggtaaga gtgtttaatg agagggtata aggtataaat caccagtcaa 240
cgtttctctg cctatgaccg a 261

```

```

<210> 20
<211> 294
<212> DNA
<213> Homo sapiens

```

```

<220>

```

<221> misc_feature
 <222> 194, 274, 283, 294
 <223> n = A,T,C or G

<400> 20
 tacaacgagg cgacgtcggg aaaatcggac atgaagccac cgctgggtctt ttcgtccgag 60
 cgataggcgc cggccagcca gcggaacggg tgcccggatg gcgaagcgag ccggagttct 120
 tcggactgag tatgaatctt gttgtgaaaa tactcgccgc cttcgttcga cgacgtcgcg 180
 tcgaaatctt cganctcctt acgatcgaag tcttcgtggg cgacgatcgc ggtcagttcc 240
 gccccaccga aatcatgggt gagccggatg ctgnccccga agncctcgtt tgtn 294

<210> 21
 <211> 208
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 116, 132, 140, 160, 164, 191, 197, 199
 <223> n = A,T,C or G

<400> 21
 ttggtaaagg gcatggacgc agacgcctga cgtttggtctg aaaatctttc attgattcgt 60
 atcaatgaat agggaaattc ccaaagaggg aatgtcctgt tgctcgccag tttttntggt 120
 gttctcatgg anaaggcaan gagctcttca gactattggn atntcgttc ggtcttctgc 180
 caactagtcg ncttgcnang atcttcat 208

<210> 22
 <211> 287
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 1, 4, 25, 121, 168, 207, 212
 <223> n = A,T,C or G

<400> 22
 nccnttgagc tgagtgattg agatntgtaa tggttgtaag ggtgattcag gcggattagg 60
 gtggcggggt acccggcagt ggggtctccg acaggccagc aggatttggg gcaggtagcg 120
 ngtgcgcacg gctcgactat atgctatggc aggcgagccg tggaaggngg atcaggtcac 180
 ggcgctggag ctttccacgg tccatgnatt gngatggctg ttctaggcgg ctgttgccaa 240
 gcgtgatggg acgctggctg gagcattgat ttctgggtgcc aaggtgg 287

<210> 23
 <211> 204
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 40, 121, 131, 162, 184, 197
 <223> n = A,T,C or G

<400> 23
 ttgggtaaag ggagcaagga gaaggcatgg agaggctcan gctggtcctg gcctacgact 60
 gggccaagct gtcgccgggg atggtggaga actgaagcgg gacctcctcg aggtcctccg 120
 ncgttacttc nccgtccagg aggaggggtct ttccgtgggc tnggaggagc ggggggagaa 180
 gatnctcctc atggtcnaca tccc 204

<210> 24
 <211> 264
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 171, 206
 <223> n = A,T,C or G

<400> 24
 tggattgggc aggagcgggt agagtggcac cattgagggg atattcaaaa atattatattt 60
 gtccataaatg atagttagctg agtttttctt tgacccatga gttatattgg agtttatattt 120
 ttaactttcc aatcgcatgg acatgttaga cttattttct gttaatgatt nctatatttta 180
 ttaaattgga tttgagaaat tggttnttat tatatcaatt tttggtattt gttgagtttg 240
 acattatagc ttagtatgtg acca 264

<210> 25
 <211> 376
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 103, 111, 192, 196, 199, 220, 224, 230, 251, 268, 283, 317,
 352, 370, 374
 <223> n = A,T,C or G

<400> 25
 ttacaacgag gggaaactcc gtctctacaa aaattaaaaa attagccagg tgtggtgggtg 60
 tgcacccgca atcccagcta cttggggagg tgagacacaa gantcaccta natgtgggag 120
 gtcaagggtg catgagtcac gattgtgccca ctgcactcca gcctgggtga cagaccgaga 180
 ccctgcctca anaganaang aataggaagt tcagaaatcn tggntgtggn gccagcaat 240
 ctgcatctat ncaaccctcg caggcaangc tgatgcagcc tangttcaag agctgctgtt 300
 tctggaggca gcagttnggg cttccatcca gtatcacggc cacactcgca cnagccatct 360
 gtccctccgtn tgtnac 376

<210> 26
 <211> 372
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 231, 312, 340
 <223> n = A,T,C or G

<400> 26

```

ttacaacgag gggaaactcc gtctctacaa aaattaaaaa attagccagg tgtgggtggtg 60
tgcacctgta atcccagcta cttgggcggc tgagacacaa gaaccaccta aatgtgggag 120
ggtcaagggtt gcatgagtca tgatcgcgcc actgcactcc agcctgggtg acagactgag 180
accctgcctc aaaagaaaaa gaataggaag ttcagaaacc ctgggtgtgg ngcccagcaa 240
tctgcattta aacaatccct gcaggcaatg ctgatgcagc ctaagttcaa gagctgctgt 300
tctggaggca gnagtaaggg cttccatcca gcatcacggn caacactgca aaagcacctg 360
tcctcgttgg ta 372

```

```

<210> 27
<211> 477
<212> DNA
<213> Homo sapiens

```

```

<400> 27
ttctgtccac atctacaagt tttatttatt ttgtgggttt tcagggtgac taagtttttc 60
cctacattga aaagagaagt tgctaaaagg tgcacaggaa atcatttttt taagtgaata 120
tgataatatg ggtccgtgct taatacaact gagacatatt tgttctctgt ttttttagag 180
tcacctctta aagtccaatc ccacaatggt gaaaaaaaaa tagaaagtat ttgttctacc 240
tttaaggaga ctgcagggat tctccttgaa aacggagtat ggaatcaatc ttaaataaat 300
atgaaattgg ttggtcttct gggataagaa attcccaact cagtgtgctg aaattcacct 360
gacttttttt gggaaaaaat agtcgaaaat gtcaatttgg tccataaaat acatgttact 420
attaaaagat atttaaagac aaattctttc agagctctaa gattggtgtg gacagaa 477

```

```

<210> 28
<211> 438
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 4, 16, 30, 255, 413
<223> n = A,T,C or G

```

```

<400> 28
tctncaacct cttgantgtc aaaaaccttn taggctatct ctaaaagctg actggtattc 60
attccagcaa aatccctcta gtttttggag tttcctttta ctatctgggg ctgcctgagc 120
cacaaatgcc aaattaagag catggctatt ttccggggct gacaggtcaa aaggggtgta 180
aatccgataa gcctcctgga ggtgctctaa aaacactcct ggtgactcat catgccctg 240
gacgacttca atcgncttag acaagtttat aggtttctgg gcagctccct gaataccac 300
gaggagatac cggtggaaat cgtcaaaaagt tctccctcca cttgagaaat ttgggtccca 360
attaggctcc aattgggtct ctaatcacta ttcctctagc ttcctcctcc ggnctattgg 420
ttgatgtgag gttgaaga 438

```

```

<210> 29
<211> 620
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 391, 481, 483, 490, 497, 510, 527, 532, 540, 545, 593, 612
<223> n = A,T,C or G

```

```

<400> 29

```

```

aagaggggtac cagccccaag ccttgacaac ttccataggg tgtcaagcct gtgggtgcac 60
agaagtcaaa aattgagttt tgggatcctc agcctagatt tcagaggata taaagaaaca 120
cctaacacct agatattcag acaaaagttt actacaggga tgaagctttc acggaaaacc 180
tctactagga aagtacagaa gagaaatgtg ggtttgagc ccccaaacag aatcccctct 240
agaacctgc ctaatgaaac tgtgagaaga tggccactgt catccagaca ccagaatgat 300
agaccacca aaaacttatg ccatattgcc tataaaacct acagacactc aatgccagcc 360
ccatgaaaaa aaaactgaga agaagactgt nccctacaat gccaccggag cagaactgcc 420
ccaggccatg gaagcacagc tcttatatca atgtgacctg gatgttgaga catggaatcc 480
nangaaatcn ttttaanact tccacggtnn aatgactgcc ctattanatt cngaacttan 540
atcnggcct gtgacctctt tgctttggcc attccccctt tttggaatgg ctnttttttt 600
cccatgcctg tncctcttta                                     620

```

```

<210> 30
<211> 100
<212> DNA
<213> Homo sapiens

```

```

<400> 30
ttacaacgag ggggtcaatg tcataaatgt cacaataaaa caatctcttc tttttttttt 60
tttttttttt tttttttttt tttttttttt tttttttttt                                     100

```

```

<210> 31
<211> 762
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 626, 652, 662, 715, 736
<223> n = A,T,C or G

```

```

<400> 31
tagtctatgc gccggacaga gcagaattaa attggaagtt gccctccgga ctttctaccc 60
acactcttcc tgaagagaga aagaaaagag gcaggaaaga ggtaggatt tcattttcaa 120
gagtcagcta attaggagag cagagtttag acagcagtag gcaccccatg atacaaacca 180
tggaacaaagt cctgttttag taactgccag acatgatcct gctcaggttt tgaaatctct 240
ctgccataaa aagatggaga gcaggagtgc catccacatc aacacgtgtc caagaaagag 300
tctcagggag acaagggtat caaaaaacaa gattcttaat gggaaggaaa tcaaaccaaa 360
aaattagatt tttctctaca tatatataat atacagatat ttaacacatt attccagagg 420
tggtctcagt ccttggggct tgagagatgg tgaaaacttt tgttccacat taacttctgc 480
tctcaaatcc tgaagtatat cagaatggga caggcaatgt tttgctccac actggggcac 540
agacccaaat ggttctgtgc ccgaagaaga gaagcccgaa agacatgaag gatgcttaag 600
gggggttggg aaagccaaat tgggtantatc ttttctcctc gcctgtgttc cngaagtctc 660
cnctgaagga attcttaaaa ccctttgtga ggaaatgcc ccttaccatg acaantgggc 720
ccattgcttt taggngatg gaaacaccaa gggttttgat cc                                     762

```

```

<210> 32
<211> 276
<212> DNA
<213> Homo sapiens

```

```

<400> 32
tagtctatgc gtgtattaac ctcccctccc tcagtaacaa ccaaagaggc aggagctgtt 60
attaccaacc ccattttaca gatgcatcaa taatgacaga gaagtgaagt gacttgcgca 120

```

```
<210> 33
<211> 477
<212> DNA
<213> Homo sapiens
```

```
<210> 34
<211> 631
<212> DNA
<213> Homo sapiens
```

```
<210> 35
<211> 578
<212> DNA
<213> Homo sapiens
```

<400> 35							
tagtagttgc	catcccatat	tacagaaggc	tctgtataca	tgacttattt	ggaagtgatc		60
tgttttctct	ccaaacccat	ttatcgtaat	ttcaccagtc	ttggatcaat	cttggtttcc		120
actgatacca	tgaaacctac	ttggagcaga	cattgcacag	ttttctgtgg	taaaaactaa		180
aggtttattt	gctaagctgt	catcttatgc	ttagtatitt	ttttttacag	tggggaattg		240
ctgagattac	atthttgtat	tcattagata	ctttgggata	acttgacact	gtcttctttt		300
tttcgctttt	aattgctatc	atcatgcttt	tgaacaaga	acacattagt	cctcaagtat		360
tacataagct	tgcttgttac	gctctgttgg	ttaaaggact	atctttggcc	tcaggttcac		420
aagaatgggc	aaagtgtttc	cttatgttct	gtagtcttca	ataaaagatt	gccaggggcc		480
gggtactgtg	gctgcgactg	taatcccage	actttgggaa	gctgaggctg	gcgatcatg		540
ttagggcgag	gtttcgaaac	cagcctgggc	aactacta				578

<210> 36
 <211> 583
 <212> DNA
 <213> Homo sapiens

<400> 36
 tagtagttgc ctgtaatccc agcaactcag gaggctgggg caggagaatc agttgaacct 60
 gggaggcaga agttgtaatt agcaaagatc gcaccattgc acttcagcct gggcaacaag 120
 agtgagattc catctcaaaa acaaaaaaaaa gaaaaagaaa agaaaaggaa aaaacgtata 180
 aaccagcca aaacaaaatg atcattcttt taataagcaa gactaattta atgtgtttat 240
 ttaatcaaa cagttgaatc ttctgagtta ttggtgaaaa taccatgta gtttaatttag 300
 ggttcttact tgggtgaacg tttgatgttc acagggtata aaatgggtta caaggaaaaat 360
 gatgcataaa gaatcttata aactactaaa aataaataaa atataaatgg atagggtgcta 420
 tggatggagt ttttgtgtaa tttaaaatct tgaagtcatt ttggatgctc attggttgctc 480
 tggtaatttc cattaggaaa aggttatgat atggggaaac tgtttctgga aattgcggaa 540
 tgtttctcat ctgtaaaatg ctagtatctc agggcaacta cta 583

<210> 37
 <211> 716
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 15, 669, 673, 678, 686, 704
 <223> n = A,T,C or G

<400> 37
 gatctactag tcatntggat tctatccatg gcagctaagc ctttctgaat ggattctact 60
 gctttcttgt tctttaatcc agacccttat atatgtttat gttcacaggc agggcaatgt 120
 ttagtgaaaa caattctaaa ttttttatTT tgcatTTTca tgctaatttc cgtcacactc 180
 cagcaggctt cctgggagaa taaggagaaa tacagctaaa gacattgtcc ctgcttactt 240
 acagcctaatt ggtatgcaaa accacttcaa taaagtaaca ggaaaagtac taaccaggta 300
 gaatggacca aaactgatat agaaaaatca gaggaagaga ggaacaaata tttactgagt 360
 cctagaatgt acaaggcttt ttaattacat attttatgta aggcctgcaa aaaacagggtg 420
 agtaatcaac atttgtccca ttttacatat aaggaaactg aagcttaaat tgaataattt 480
 aatgcataga ttttatagtt agaccatgtt cagggtcccta tgttatactt actagctgta 540
 tgaatatgag aaaataattt tgttatTTTc ttggcatcag tattttcatc tgcaaaaataa 600
 agctaaagtt atttagcaaa cagtcagcat agtgccctgat acatagtagg tgctccaaac 660
 atgattacnc tantatnng tattanaaaa atccaatata ggcntggata aaaccg 716

<210> 38
 <211> 688
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 260
 <223> n = A,T,C or G

<400> 38
 ttctgtccac atatcatccc actttaattg ttaatcagca aaactttcaa tgaaaaatca 60
 tccattttta ccaggatcac accaggaaac tgaagggtga ttttttttta ccttaaaaaa 120


```
<210> 39
<211> 585
<212> DNA
<213> Homo sapiens
```

<400>	39						
tagtagttgc	cgcnnaccta	aaanttggaa	agcatgatgt	ctaggaaaca	tantaaaata	60	
gggtatgcct	atgtgctaca	gagagatgtt	agcatttaaa	gtgcatantt	ttatgtattt	120	
tgacaaatgc	atatnctct	ataatccaca	actgattacg	aagctattac	aattaaaaag	180	
tttggccggg	cgtgggtggg	ggtggctgac	gcctgtaatc	ccagcacttt	gggaggccga	240	
ggcacgcgga	tcacgaggtc	gggagttcaa	gaccatctgt	gctaacacgg	tgaaggtcca	300	
tctctactaa	aaatacgaaa	aaattatccc	ggcgtgtggt	cgggcgcttg	tagtccagc	360	
tactccggag	gctgaggcag	gagaattggc	tgaccccg	acacggagct	tgcagtgtgc	420	
caacatcacg	tcactgccct	ccagcctggg	ggacaggaac	aagantcccg	tcctcanaaa	480	
agaaaaatac	tactnatant	ttnacttta	ttttaantta	cacagaactn	cctcttggtg	540	
cccccttacc	attcatctca	cccacctcct	atagggcacn	nctaa		585	

<400> 40						
tctgtccaca	ccaatcttag	aagctctgaa	agaatttgt	ctttaaatat	cttttaatat	60
taacatgtat	tttatggacc	aaattgacat	tttcgactgt	tttttccaaa	aaagtcaggt	120
gaatttcagc	acactgagtt	gggaatttct	tatcccagaa	gaccaaccaa	tttcatattt	180
atttaagatt	gattccatac	tccgttttca	aggagaatcc	ctgcagtcct	cttaaaggta	240
gaacaaatac	ttcctatttt	tttttcacca	ttgtgggatt	ggactttaag	aggtgactct	300
aaaaaaaaacag	agaacaaata	tgtctcagtt	gtattaagca	cggacccata	ttatcatatt	360
cacttaaaaaa	aatgatttcc	tgtgcacctt	ttggcaactt	ctcttttcaa	tgtagggaaa	420
aacttagtca	ccctgaaaac	ccacaaaata	aataaaactt	gtagatgtgg	acaga	475

```
<210> 41
<211> 423
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 473
<223> n = A,T,C or G
```

```
<210> 45
<211> 567
<212> DNA
<213> Homo sapiens
```

<400>	45										
ggcttagtag	ttgccattgc	gagtgccttgc	tcaacgagcg	ttgaacatgg	cggattgtct	60					
agattcaacg	gatttgagtt	ttaccagcaa	agcgaacca	gcgcggccca	gagaattatg	120					
ggttggttgg	ctttgaaaag	atggaaatcc	tgtaggccta	gtcagaaaag	cctttcttgca	180					
gaacagttgg	ttctcggggc	aacgctcatc	aagatgccca	ttggaaaggc	tagcgtgtat	240					
ttgggagagc	ctgatagcgt	gtcttctgat	gatgtttgtg	cttggacagt	gacaaaagat	300					
atgcaaagca	agtccgaact	agacgtcaag	cttcgtgagc	aaattattgt	agactcctac	360					
ttatactgtg	aggaatgata	gccaaaggtg	gggactttaa	gactaagggtg	gtttgtactt	420					
gcgccgatga	tcccaggcag	aaagamtgtg	tcgctagttt	tatacgggca	actactaagc	480					
cgaattccag	cacactggcg	gcggttacta	attggatccg	anctcggtac	cagcttgatg	540					
catasccttga	gttwctctata	ntgtcnc				567					

```
<220>
<221> misc_feature
<222> 21, 23, 24, 27, 29, 34
<223> n = A,T,C or G
```

[illegible]

```

gttaatgtgt catccctcct atataacgta tttgcatttt aatggagcaa ttctggagat 600
aatccctgaa ggcaaaggaa tgaatcttga gggtagagaa gccagaatca gtgtccagct 660
gcagttgtgg gagaagggtga tattatgtat gtctcagaag tgacaccata tgggcaacta 720
ctaagcccga attccagcac actggcgggc gttactaatg gatccgagct cggtagcaag 780
cttgatgcat agcttgagta tctatagtgt cactaaatag cctggcggtta tcatggtcat 840
agctgtttcc tgtgtgaaat tgttatccgc tccaattcc cccaccata cgagccgga 900
cataaagt 908

```

```

<210> 47
<211> 480
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 408, 461
<223> n = A,T,C or G

```

```

<400> 47
tgccaacaag gaaagtttta aatttccctt tgaggattct tggatgatcat caaattcagt 60
ggtttttaag gttgttttct gtcaaataac tctaacttta agccaaacag tatatggaag 120
cacagataka atattacaca gataaaagag gagttgatct aaagtaraga tagttggggg 180
ctttaatttc tggaacctag gtctcccat cttcttctgt gctgaggaac ttcttgggaag 240
cggggattct aaagttcttt ggaagacagt ttgaaaacca ccatgttggt ctcagtacct 300
ttatttttta aaagtaggtg aacattttga gagagaaaag ggcttggttg agatgaagtc 360
ccccccccc cttttttttt ttttagctga aatagatacc ctatgttnaa rgaarggatt 420
attatttacc atgccaytar scacatgctc tttgatgggc nyctccstac cctccttaag 480

```

```

<210> 48
<211> 591
<212> DNA
<213> Homo sapiens

```

```

<400> 48
aagagggtag cgagtggaat ttccgcttca ctagtctggt gtggctagtc ggtttcgtgg 60
tggccaacat tacgaacttc caactcaacc gttcttggac gttcaagcgg gtagtaccgc 120
gaggatgggt gcgtgaattc tggcctttct ttgccgtggg atcggtagcc gccatcatcg 180
gtatgtttat caagatcttc tttactaacc cgacctctcc gatttacctg cccgagccgt 240
ggtttaacga ggggaggggg atccagtcac gcgagtactg gtcccagatc ttccgccatcg 300
tcgtgacaat gcctatcaac ttcgctcgta ataagttgtg gaccttccga acggtgaagc 360
actccgaaaa cgtccgggtg ctgctgtgcg gtgactccca aaatcttgat aacaacaagg 420
taaccgaatc gcgctaagga accccggcat ctccgggtact ctgcatatgc gtaccctta 480
agccgaattc cagcactcgc gcggccgtta ctaattggat ccgaactccg taaccaagcc 540
tgatgcgtaa cttgagttat tctatagtgt ccctaaaata acctggcggt a 591

```

```

<210> 49
<211> 454
<212> DNA
<213> Homo sapiens

```

```

<400> 49
aagagggtag ctgccttgaa atttaaattgt ctaaggaaar tgggagatga ttaagagttg 60
gtgtggcyta gtcacaccaa aatgtattta ttacatcctg ctccctttcta gttgacagga 120

```

```

aagaaagctg ctgtggggaa aggagggata aatactgaag ggatttacta aacaaatgtc 180
catcacagag ttttcctttt tttttttttg agacagagtc ttgctctgtc acccaggctg 240
gaatgaagwg gtatgatctc agttgaatgc aacctctacc tcctaggttc aagcgattct 300
catgcctcag cctcctgagc agctgggact ataggcgcat gctaccatgc caggctaatt 360
tttatatttt tattagagac ggggtgttgc catgttggcc aggcaggctc cgaactcctg 420
ggcctcagat gatctgcccc accgtaccct cttta                                     454

```

<210> 50
 <211> 463
 <212> DNA
 <213> Homo sapiens

```

<400> 50
aagagggtac caaaaaaaag aaaaaggaaa aaaagaaaaa caacttgtat aaggctttct 60
gctgcataca gctttttttt tttaaataaa tggtgccaac aaatgttttt gcattcacac 120
caattgctgg ttttgaaatc gtactcttca aagggtattg tgcagatcaa tccaatagtg 180
atgccccgta ggttttgtgg actgcccacg ttgtctacct tctcatgtag gagccattga 240
gagactgttt ggacatgect gtgttcatgt agccgtgatg tccggggggc gtgtacatca 300
tgttaccgtg ggggtggggtc tgcatgggct gctgggcata tggctgggtg cccatcatgc 360
ccatctgcat ctgcataagg tattggggcg tttgatccat atagccatga ttgtgtgtgt 420
agccactgtt catcattggc tgggacatgc tgttaccctc tta                                     463

```

<210> 51
 <211> 399
 <212> DNA
 <213> Homo sapiens

```

<400> 51
cttcaacctc ccaaagtgtt gggattacag gactgagcca ccacgctcag cctaagcctc 60
tttttacta ccctctaagc gatctaccac agtgatgagg ggctaaagag cagtgaatt 120
tgattacaat aatggaactt agatttatta attacaatt tttccttagc atgttggttc 180
cataattatt aagagtatgg acttacttag aaatgagctt tcattttaag aatttcatct 240
ttgaccttct ctattagtct gagcagtatg acactatacg tattttattt aactaaccta 300
ccttgagcta ttacttttta aaaggctata tacatgaatg tgtattgtca actgtaaagc 360
cccacagtat ttaattatat catgatgtct ttgagggttg                                     399

```

<210> 52
 <211> 392
 <212> DNA
 <213> Homo sapiens

```

<400> 52
cttcaacctc aatcaacctt ggtaattgat aaaatcatca cttaactttc tgatataatg 60
gcaataatta tctgagaaaa aaaagtgggtg aaagattaaa cttgcatttc tctcagaatc 120
ttgaaggata tttgaataat tcaaaagcgg aatcagtagt atcagccgaa gaaactcact 180
tagctagaac gttggacca tggtactaag tccctgccct tccactaacc agctgattgg 240
ttttgtgtaa acctcctaca cgcttgggct tggctgcctc atttgtcaaa gttaaaggctg 300
aaataggaag ataatgaacc gtgtcttttt ggtctctttt ccatccatta ctctgatttt 360
acaaagaggc ctgtattccc ctggtgaggt tg                                     392

```

<210> 53
 <211> 179
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 135, 143, 179
 <223> n = A,T,C or G

<400> 53
 ttcgggtgat gcctcctcag gctacagtga agactggatt acagaaaggt gccagcgaga 60
 tttcagattc ctgtaaacct ctaaagaaaa ggagtcgcgc ctcaactgat gtagaaatga 120
 ctagttcagc ataengagac acntctgact ccgattctag aggactgagt gacctgcan 179

<210> 54
 <211> 112
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 31, 49, 54, 55, 75, 91, 107
 <223> n = A,T,C or G

<400> 54
 ttcgggtgat gcctcctcag gctacatcat natagaagca aagtagaana atcnngtttg 60
 tgcattttcc cacanacaaa attcaaata ntggaagaaa ttggganagt at 112

<210> 55
 <211> 225
 <212> DNA
 <213> Homo sapiens

<400> 55
 tgagcttccg cttctgacaa ctcaatagat aatcaaagga caactttaac agggattcac 60
 aaaggagtat atccaaatgc caataaacat ataaaaagga attcagcttc atcatcatca 120
 gaagwatgca aattaaaacc ataattgagaa accactatgt cccactagaa tagataaaat 180
 cttaaaagac tggtaaaacc aagtgttggt aaggcaagag gagca 225

<210> 56
 <211> 175
 <212> DNA
 <213> Homo sapiens

<400> 56
 gctcctcttg ccttaccaac acattctcaa aaacctgtta gagtcctaag cattctcctg 60
 ttagtatttg gattttaccc ctgtcctata aagatgttat gtacaaaaa tgaagtggag 120
 ggccataccc tgagggaggg gagggatctc tagtgttgtc agaagcggaa gctca 175

<210> 57
 <211> 223
 <212> DNA
 <213> Homo sapiens

<400> 57
 agccatttac cacccatgga tgaatggatt ttgtaattct agctgttgta ttttgtgaat 60
 ttgttaattt tgttgttttt ctgtgaaaca catacattgg atatgggagg taaaggagtg 120

tcccagttgc tcttggtcac tccctttata gccattactg tcttgtttct tgtaactcag 180
gtaggtttt ggtctctott gctccactgc aaaaaaaaaa aaa 223

<210> 58
<211> 211
<212> DNA
<213> Homo sapiens

<400> 58
gttcgaaggt gaacgtgtag gtagcggatc tcacaactgg ggaactgtca aagacgaatt 60
aactgacttg gatcaatcaa atgtgactga ggaaacacct gaaggtgaag aacatcatcc 120
agtggcagac actgaaaata aggagaatga agttgaagag gtaaaagagg agggtcctaaa 180
agagatgact ttggatgggt ggtaaatggc t 211

<210> 59
<211> 208
<212> DNA
<213> Homo sapiens

<400> 59
gctcctcttg ccttaccaac ttgacacca tcatcaacca tgtggccagg tttgcagccc 60
aggctgcaca tcaggggact gcctcgcaat acttcatgct gttgctgctg actgatgggtg 120
ctgtgacgga tgtggaagcc acacgtgagg ctgtggtgctg tgccctgaac ctgcccattgt 180
cagtgatcat tatgggtggt aaatggct 208

<210> 60
<211> 171
<212> DNA
<213> Homo sapiens

<400> 60
agccatttac caccataact aaattctagt tcaaactcca acttcttcca taaaacatct 60
aaccactgac accagttggc aatagcttct tcttcttta acctcttaga gtatttatgg 120
tcaatgccac acatttctgc aactgaataa agttggtaag gcaagaggag c 171

<210> 61
<211> 134
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 37, 70, 80, 86, 88, 97, 117, 123, 131
<223> n = A,T,C or G

<400> 61
cgggtgatgc ctctcaggc ttggtgtgt ccaactnact cactggcctc ttctccagca 60
actggtgaan atgtctcan gaaaancncc acacgngct cagggtgggg tgggaancat 120
canaatcatc nggc 134

<210> 62
<211> 145
<212> DNA
<213> Homo sapiens

<400> 62
 agaggggtaca tatgcaacag tatataaagg aagaagtgca ctgagaggaa cttcatcaag 60
 gccatttaaat caataagtga tagagtcaag gctcaacca ggtgtgacgg attccagggtc 120
 ccaagctcct tactgtgtacc ctctt 145

<210> 63
 <211> 297
 <212> DNA
 <213> Homo sapiens

<400> 63
 tgcactgaga ggaattcaaa gggtttatgc caaagaacaa accagtcctc tgcagcctaa 60
 ctcatctgtt tttgggctgc gaagccatgt agagggcgat caggcagtag atgggtccctc 120
 ccacagtcag cgccatggtg gtccggtaaa gcatttggtc aggcaggcct cgtttcagggt 180
 agacgggac acatcagctt tctggaaaaa cttttgtagc tctggagctt tgtttttccc 240
 agcataatca tacactgtgg aatcggaggt cagtttagtt ggtaaggcaa gaggagc 297

<210> 64
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 64
 gcactgagag gaacttccaa tactatgttg aataggagtg gtgagagagg gcatccttgt 60
 cttgtgccgg ttttcaaagg gaatgcttcc agcttttgcc cattcagtat aatattaaag 120
 aatgttttac catcttctgt cttgcctgtt tttctgtgtt tttgttggtc tcttcattct 180
 ccatttttag gcctttacat gttaggaata tatttctttt aatgatactt caccttttgg 240
 atcttttgtg agactctact catagtgtga taagcactgg gtttgtaagg caagaggagc 300

<210> 65
 <211> 203
 <212> DNA
 <213> Homo sapiens

<400> 65
 gtcctctctg ccttaccac tcacccagta tgtcagcaat tttatcrgct ttacctacga 60
 aacagcctgt atccaaacac ttaacacact cacctgaaaa gttcaggcaa caatcgcctt 120
 ctcatgggtc tctctgtctc agttctgaac ctttctcttt tcctagaaca tgcatttarg 180
 tcgatagaag ttctctctcag tgc 203

<210> 66
 <211> 344
 <212> DNA
 <213> Homo sapiens

<400> 66
 tacggggacc cctgcattga gaaagcgaga ctcaactctga agctgaaatg ctgttgccct 60
 tgcagtgtcg gtacgaggag ttctgtgctt tgtgggctaa ggctcctgga tgaccctga 120
 catggagaag gcagagttgt gtgccccttc tcatggcctc gtcaaggcat catggactgc 180
 cacacacaaa atgccgtttt tattaacgac atgaaattga aggagagaac acaattcact 240
 gatgtggctc gtaaccatgg atatggtcac atacagaggt gtgattatgt aaagggtta 300
 tccaccacc tcatgtggaa actagcctca atgcaggggt ccca 344

<210> 67
 <211> 157
 <212> DNA
 <213> Homo sapiens

<400> 67
 gcactgagag gaacttcgta gggagggtga actggctgct gaggaggggg aacaacaggg 60
 taaccagact gatagccatt ggatggataa tatgggtggt gaggagggac actacttata 120
 gcagaggggt gtgtatagcc tgaggaggca tcacccg 157

<210> 68
 <211> 137
 <212> DNA
 <213> Homo sapiens

<400> 68
 gcactgagag gaacttctag aaagtgaag tctagacata aaataaaata aaaattttaa 60
 actcaggaga gacagcccag cacgggtggt cacgcctgta atcccagaac tttgggagcc 120
 tgaggaggca tcacccg 137

<210> 69
 <211> 137
 <212> DNA
 <213> Homo sapiens

<400> 69
 cgggtgatgc ctctcaggc tgtattttga agactatcga ctggacttct tatcaactga 60
 agaatccggt aaaaatacca gttgtattat ttctacotgt caaaatccat ttcaaagtgt 120
 gaagttcctc tcagtgc 137

<210> 70
 <211> 220
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 89, 112, 129, 171, 172
 <223> n = A,T,C or G

<400> 70
 agcatgttga gcccagacac gcaatctgaa tgagtgtgca cctcaagtaa atgtctacac 60
 gctgcctggt ctgacatggc acaccatcnc gtggagggca casctctgct cngcctacwa 120
 cgagggcant ctcatwgaca ggttcacccc accaaaactgc aagaggctca nnaagtactr 180
 ccaggggtmya sggacmasgg tgggaytyca ycacwcatct 220

<210> 71
 <211> 353
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> 66, 160, 204, 246, 267, 334, 339, 342

<223> n = A,T,C or G

<400> 71

```
cgttagggtc tctatccact gctaaacat acacctgggt aaacaggac catttaacat 60
tcccanctaa atatgccaag tgacttcaca tgtttatctt aaagatgtcc aaaacgcaac 120
tgattttctc ccctaaacct gtgatgggtg gatgattaan cctgagtggc ctacagcaag 180
ttaagtgcaa ggtgctaaat gaangtgacc tgagatacag catctacaag gcagtacctc 240
tcaacncagg gcaactttgc ttctcanagg gcatttagca gtgtctgaag taattttctgt 300
attacaactc acggggcggg ggggtgaatat ctantggana gnagacccta acg 353
```

<210> 72

<211> 343

<212> DNA

<213> Homo sapiens

<400> 72

```
gcactgagag gaacttccaa tacyatkac agagtgaaca rgcarccyac agaacaggag 60
aaaatgttyg caatctctcc atctgacaaa aggctaatat ccagawtcta awaggaaactt 120
aaacaaatth atgagaaaag aacaracaac ctcaawcaaaa agtgggtgaa ggawatgcts 180
aaargaagac atytattcag ccagtaaaca yatgaaaaaa aggctcatsa tcaactgawca 240
ttagagaaat gcaaatcaaa accacaatga gataccatct yayrccagtt agaaygggtga 300
tcattaaaaa stcaggaaac aacagatgct ggacaagggtg tca 343
```

<210> 73

<211> 321

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 288

<223> n = A,T,C or G

<400> 73

```
gcactgagag gaacttcaga gagagagaga gagttccacc ctgtacttgg ggagagaaac 60
agaagggtgag aaagtctttg gttctgaagc agcttctaag atcttttcat ttgcttcatt 120
tcaaagttcc catgctgcc aagtgccatc ctttggggta ctgttttctg agctccagtg 180
ataactcatt tatacaagg agataccag aaaaaaagt agcaaattctt aaaaagggtg 240
cttgagttca gccttaaata ccatcttgaa atgacacaga gaaagaanga tgttgggtgg 300
gagtggatag agaccctaac g 321
```

<210> 74

<211> 321

<212> DNA

<213> Homo sapiens

<400> 74

```
gcactgagag gaacttcaga gagagagaga gagttccacc ctgtacttgg ggagagaaac 60
agaagggtgag aaagtctttg gttctgaagc agcttctaag atcttttcat ttgcttcatt 120
tcaaagttcc catgctgcc aagtgccatc ctttggggta ctgttttctg agctccagtg 180
ataactcatt tatacaagg agataccag aaaaaaagt agcaaattctt aaaaagggtg 240
cttgagttca gyccttaaata ccatcttgaa atgamacaga gaaagaagga tgttgggtgg 300
gagtggatag agaccctaac g 321
```

<210> 75
 <211> 317
 <212> DNA
 <213> Homo sapiens

<400> 75
 gcactgagag gaacttccac atgcactgag aaatgcatgt tcacaaggac tgaagtctgg 60
 aactcagttt ctcagttcca atcctgattc aggtgtttac cagctacaca accttaagca 120
 agtcagataa ccttagcttc ctcatatgca aaatgagaat gaaaagtact catcgctgaa 180
 ttgttttgag gattagaaaa acatctggca tgcagtagaa attcaattag tattcatttt 240
 cattcttcta aattaaacaa ataggatttt tagtggtgga acttcagaca ccagaaatgg 300
 gagtggatag agaccct 317

<210> 76
 <211> 244
 <212> DNA
 <213> Homo sapiens

<400> 76
 cgttagggtc tctatccact ccactactg atcaaaactct atttatttaa ttatttttat 60
 catactttta gttctgggat acacgtgcag catgcgagg tttgttgcag aggtatacac 120
 ttgccatggt ggtttgctgc acccatcagt ccatcatcta cattaggtat ttctccta 180
 gctatccctc ccctagcccc ttacaccccc aacaggctct agtgtgtgaa gttcctctca 240
 gtgc 244

<210> 77
 <211> 254
 <212> DNA
 <213> Homo sapiens

<400> 77
 cgttagggtc tctatccact gaaatctgaa gcacaggagg aagagaagca gtyctagtga 60
 gatggcaagt tcwtttacca cactctttta catttygttt agttttaacc tttattttatg 120
 gataataaag gttaatatta ataatgattt attttaaggc attcccraat ttgcataatt 180
 ctctttttgg agataccctt ttatctccag tgcaagtctg gatcaaagtg atasamagaa 240
 gttcctctca gtgc 254

<210> 78
 <211> 355
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 69, 87, 186, 192, 220, 227, 251, 278, 339, 346, 350
 <223> n = A,T,C or G

<400> 78
 ttcgatagag gcaaacatga actgcaggag ggtggtgacg atcatgatgt tgccgatggt 60
 ccggatggnc acgaagacgc actggancac gtgcttacgt ccttttgctc tgttgatggc 120
 cctgagggga cgcaggaccc ttatgacctt cagaatcttc acaacgggag atggcactgg 180
 attgantccc antgacacca gagacacccc aaccaccagn atatcantat attgatgtag 240
 ttctgttaga nggccccctt gtggaggaaa gctccatnag ttggtcatct tcaacaggat 300

ctcaacagtt tccgatggct gtgatgggca tagtcatant taaccntgtn tcgaa 355

<210> 79

<211> 406

<212> DNA

<213> Homo sapiens

<400> 79

taagagggta	ccagcagaaa	ggttagatc	atcagatagc	atcttatacg	agtaatatgc	60
ctgctatttg	aagtgtaat	gagaaggaaa	atttttagcgt	gtcactgac	ctgcctgtag	120
ccccagtgc	agctaggatg	tgcattctcc	agccatcaag	agactgagtc	aagttgttcc	180
ttaagtcaga	acagcagact	cagctctgac	attctgattc	gaatgacact	gttcaggaat	240
cggaaatcctg	tcgattagac	tggaacagctt	gtggcaagtg	aatttgccctg	taacaagcca	300
gatttttttaa	aatttatatt	gtaaataatg	tgtgtgtgtg	tgtgtgtata	tatatatata	360
tgtacagtta	tctaagttaa	tttaaaagtt	gtttgggtacc	ctctta		406

<210> 80

<211> 327

<212> DNA

<213> Homo sapiens

<400> 80

tttttttttt	tttactcggc	tcagtctaat	cctttttgta	gtcactcata	ggccagactt	60
agggctagga	tgatgattaa	taagagggat	gacataacta	ttagtggcag	gttagttgtt	120
tgtagggctc	atggtagggg	taaaaggagg	gcaatttcta	gatcaaataa	taagaaggta	180
atagctacta	agaagaattt	tatggagaaa	gggacgcggg	cgggggatat	agggtcgaag	240
cgcactcgt	aaggggtgga	tttttctatg	tagccgttga	gttgtggtag	tcaaaatgta	300
ataattatta	gtagtaagcc	taggaga				327

<210> 81

<211> 318

<212> DNA

<213> Homo sapiens

<400> 81

tagtctatgc	ggttgattcg	gcaatccatt	atttgcctga	ttttgtcatg	tgttttgcca	60
attgcattca	taattttatta	tgcatttatg	cttgtatctc	ctaagtcatg	gtatataatc	120
catgcttttt	atgttttgtc	tgacataaac	tcttatcaga	gccctttgca	cacagggatt	180
caataaata	taacacagtc	tacatttatt	tggtgaatat	tgcatatctg	ctgtactgaa	240
agcacattaa	gtaacaaagg	caagtgagaa	gaatgaaaag	cactactcac	aacagttatc	300
atgattgcgc	atagacta					318

<210> 82

<211> 338

<212> DNA

<213> Homo sapiens

<400> 82

tcttcaacct	ctactccac	taatagcttt	ttgatgactt	ctagcaagcc	tcgctaacct	60
cgccttaccc	cccactatta	acctactggg	agaactctct	gtgctagtaa	ccacgttctc	120
ctgatcaaat	atcactctcc	tacttacagg	actcaacata	ctagtcacag	ccctatactc	180
cctctacata	tttaccacaa	cacaatgggg	ctcactcacc	caccacatta	acaacataaa	240
accctcattc	acacgagaaa	acaccctcat	gttcatacac	ctatccccca	ttctcctcct	300
atccctcaac	cccgacatca	ttaccgggtt	ttcctctt			338

<210> 83
 <211> 111
 <212> DNA
 <213> Homo sapiens

<400> 83
 agccattttac caccatcca caaaaaaaaa aaaaaaaaaaag aaaaatatca aggaataaaa 60
 atagactttg aacaaaaagg aacatttgct ggctgagga ggcacacccc g 111

<210> 84
 <211> 224
 <212> DNA
 <213> Homo sapiens

<400> 84
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 tgaggtggat tcacgagttg cggacaactc ctttgatgcc aagcgaggtg cagccggaga 180
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 gagcagactt gtaacactct twttgtggaa ttgcaagtg gagatttcag scgctttgaa 180
 gtsaaaggta gaaaaggaaa tatcttccta taaaaactag acagaatgat tctcagaaac 240
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 ctctcttag ccctacttag agtaaggctc acccttact gggctgggtt cttacctttt 7200
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 aaaatatcac aaactaattt attacagtac ctacagtctc cccaacaggt acaagatatc 7320
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 cctgcttga agagacctca caccgtcatc acgatgccaa cggctctgaa ggtggatggc 7500
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 gattaattct ttttcttaat ttgtgaaac aatgcatagc ttctgtcaa ttccccaaaa 7740
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 acacaagtgg ggaatgtagt gtccaacctg gtttttacta acctgtttt tagactctcc 7860
 ctttcttta atcactcagc ctgttttcca cctgaattga ctctccctta gctaagagcg 7920
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 gcaagctgac tcccagcaca tccaagaatg caattaactg ataagatact gtggcaagct 8040
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 agcgttagcc gtctctggc caccagctaa ataacggat tcttcatgtg tctcaaagt 8340
 tggcgttttc tctaactcgc tcaggtagc cgtggtagt attttccca acgtcttatt 8400
 tttagggcac gtatgtagag taacttttat gaaagaaacc agttaaggag gttttgggat

```

ttcctttatc aactgtaata ctggttttga ttattttattt attttattat tttttttgag 8460
aaggagtttc actcttggtg cccaggctgg agtgcaatgg tgcgatcttg gctcactgca 8520
acttccgcct cccagggttca agcgattctc ctgcctcagc ctcgagagta gctgggatta 8580
taggcatgcg ccaccacacc cagctaattt tgtattttta gtaaagatgg ggtttcttca 8640
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aagtgtctggg attacaggtg tgatccacca ccccagccg atttatatgt atataaatca 8760
cattcctcta accaaaatgt agtgtttctt tccatcttga atataggctg tagaccccg 8820
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ccaaatagcc ttcattggtt tcaactgctt ccaagacaat tccaaataac acttcccagt 8940
gatgacttgc tacttgctat tgttacttaa tgtgttaagg tggctgttac agacactatt 9000
agtatgtcag gaattacacc aaaatttagt ggctcaaaca atcattttat tatgtatgtg 9060
gattctcatg gtcaggtcag gatttcagac agggcacaag ggtagccac ttgtctctgt 9120
ctatgatgtc tggcctcagc acaggagact caacagctgg ggtctgggac catttgagg 9180
cttgttccct cacatctgat acctggcttg ggatgttggg agaggggtg agctgagact 9240
gagtgcctat atgtagtgtt tccatatggc cttgacttcc ttacagcctg gcagcctcag 9300
ggtagtcaga attcttagga ggcacagggc tccagggcag atgctgaggg gtcttttatg 9360
aggtagcaca gcaaateccac ccaggatc 9388

```

<210> 142
 <211> 419
 <212> DNA
 <213> Homo sapiens

```

<400> 142
tgtaagtcga gcagtgtgat ggaaggaatg gtctttggag agagcatatc catctcctcc 60
tactgcctc ctaatgtcat gaggtacact gagcagaatt aaacagggtg gtcttaacca 120
cactattttt agctaccttg tcaagetaat ggttaaagaa cacttttggg ttacacttgt 180
tgggtcatag aagttgcttt ccgccatcac gcaataagtt tgtgtgtaat cagaaggagt 240
taccttatgg tttcagtgtc attctttagt taacttggga gctgtgtaat ttaggctttg 300
cgtattattt cacttctgtt ctccacttat gaagtgattg tgtgttcgcg tgtgtgtgcg 360
tgcgcatgtg cttccggcag ttaacataag caaataccca acatcacact gctcgactt 419

```

<210> 143
 <211> 402
 <212> DNA
 <213> Homo sapiens

```

<400> 143
tgtaagtcga gcagtgtgat gtccactgca gtgtgttgct gggaacagtt aatgagcaaa 60
ttgtatacaa tggctagtac attgaccggg atttggtgaa gctgggtgagt gttatgactt 120
agcctgttag actagtctat gcacatggct ctgggtcaact accgctctct catcttctcca 180
gataaatccc ccatgcttta tattctcttc caaacatact atcctcatca ccacatagtt 240
cctttgttaa tgctttgttc tagactttcc cttttctgtt ttcttattca aacctatata 300
tctttgcata gattgtaaatt tcaaatgccc tcagggtgca ggcagttcat gtaagggagg 360
gaggctagcc agtgagatct gcacacact gctcgactta ca 402

```

<210> 144
 <211> 224
 <212> DNA
 <213> Homo sapiens

<400> 144

```
<210> 145
<211> 111
<212> DNA
<213> Homo sapiens
```

```
<210> 146
<211> 585
<212> DNA
<213> Homo sapiens
```

```
<210> 147
<211> 579
<212> DNA
<213> Homo sapiens
```

<400>	147					
tagcatgttg	agcccagaca	ctgggcagcg	ggggtggcca	cggcagctcc	tgccagagccc	60
aagcgtgttt	gtctgtgaag	gaccctgacg	tcacctgcca	ggctagggag	gggtcaatgt	120
ggagtgaatg	ttacccgact	ttcgcaggag	tgtgcagaag	ccaggtgcaa	cttggtttgc	180
ttgtgttcat	cacccctcaa	gatatgcaca	ctgctttcca	aataaagcat	caactgtcat	240
ctccagatgg	ggaagacttt	ttctccaacc	agcaggcagg	tccccatcca	ctcagacacc	300
agcacgtcca	ccttctcggg	cagcaccacg	tcttccacct	tctgctggta	cacgggtgatg	360
atgtcagcaa	agccgtttctg	cangaccacg	tgccccgtgt	gctgtgccat	ctcaactggcc	420
tcacccgcgt	acaccgctct	aggccgcgca	tantgtgcac	agaanaaatg	atgatccagt	480
cccacagccc	acgtccaaga	ngactttatc	cgtcagggat	tctttattct	gcaggatgac	540
ctgtggtatt	aattgttcgt	gtctgggctc	aacatgcta			579

<211> 249
 <212> DNA
 <213> Homo sapiens

<400> 148
 tgacaccttg tccagcatct gcaagccagg aagagagtcc tcaccaagat cccacccccg 60
 ttggcaccag gatcttggac ttccaatctc cagaactgtg agaaataagt atttgctgct 120
 aaataaatct ttgtggtttc agatatttag ctatagcaga tcaggctgac taagagaaac 180
 ccataagag ttacatactc attaatctcc gtctctatcc ccaggctctca gatgctggac 240
 aaggtgtca 249

<210> 149
 <211> 255
 <212> DNA
 <213> Homo sapiens

<400> 149
 tgacaccttg tccagcatct gctattttgt gactttttta taatagccat tctgactggt 60
 gtgagatggt aactcattgt gggtttggtc tgcattttctc taatgatcag tgatattaag 120
 ctttttttaa atatgcttgt tgaccacatg tataatcatct tttgagaagt gtctgttcat 180
 atcctttgcc cactttttta tttttttatc ttgtaaaatt gttaaatttc cttacagatg 240
 ctggacaagg tgtca 255

<210> 150
 <211> 318
 <212> DNA
 <213> Homo sapiens

<400> 150
 ttacgctgca aactgtgga ggccaagctg ggatcacttc ttcattctaa ctggagagga 60
 gggaagttca agtcagcag aggggtgggtg ggtagacagt ggcaactcaga aatgtcagct 120
 ggaccctgt ccccgcatag gcaggacagc aaggctgtgg ctctccaggg ccagctgaag 180
 aacaggacac tgtctccgct gccacaaagc gtcagagact cccatctttg aagcacggcc 240
 ttcttggtct tctgcactt ccctgttctg ttagagaact gggtatagac aaggcttctc 300
 cacagtgttg cagcgtaa 318

<210> 151
 <211> 323
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 2, 7, 10, 13, 14, 23, 26, 32, 44, 54, 56, 67, 74, 75, 81,
 87, 104, 105, 109, 111, 120, 123, 124, 136, 137, 138, 151,
 155, 162, 168, 171, 176, 184, 186, 196, 215, 231, 239, 252,
 265, 288, 318
 <223> n = A,T,C or G

<400> 151
 tnacgngcn acnntgtaga ganggnaagg cnttccccac attnccccctt catnanagaa 60
 ttattcnacc aagnttgacc natgccnttt atgacttaca tgonnactnc ntaatctgtn 120
 tcnngcetta aaagcnnntc cactacatgc ntcancactg tntgtgtnac ntcatnaact 180
 gtcngnaata ggggcncata actacagaaa tgcanttcat actgcttcca ntgccatcng 240

```
cgtgtggcct tncctactct tcttntatct caagtagcat ctctggantg cttccccact 300
ctccacattg ttgcagcnat aat 323
```

```
<210> 152
<211> 311
<212> DNA
<213> Homo sapiens
```

```
<400> 152
tcaagattcc ataggctgac cagtccaagg agagttgaaa tcatgaagga gagtctatct 60
ggagagagct gtagttttga gggttgcaaa gacttaggat ggagttggtg ggtgtgggta 120
gtctctaagg ttgattttgt tcataaattt catgccttga atgccttgtc tgcctcacc 180
tggccaagc cttagtgaac acctaaaagt ctctgtcttc ttgctctcca aacttctcct 240
gaggatttcc tcagattgtc tacattcaga tcgaagccag ttggcaaaca agatgcagtc 300
cagagggtca g 311
```

```
<210> 153
<211> 332
<212> DNA
<213> Homo sapiens
```

```
<400> 153
caagattcca taggctgacc aggaggctat tcaagatctc tggcagttga ggaagtctct 60
ttaagaaaat agtttaaca atttgtaaa atttttctgt cttacttcat ttctgtagca 120
gttgatatct ggctgtcctt tttataatgc agagtgggaa ctttcctac catgtttgat 180
aaatgttgtc caggctccat tgccaataat gtgtgtgcca aaatgcctgt ttagttttta 240
aagacggaac tccacccttt gcttggctct aagtatgtat ggaatgttat gataggacat 300
agtagtagcg gtggtcagcc tatggaatct tg 332
```

```
<210> 154
<211> 345
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 154, 224, 297, 330
<223> n = A,T,C or G
```

```
<400> 154
tcaagattcc ataggctgac ctggacagag atctcctggg tctggcccag gacagcaggc 60
tcaagctcag tggagaaggc ttccatgacc ctccagattcc cccaaacctt ggattgggtg 120
acattgcatc tcctcagaga gggaggagat gtangtctgg gcttcacag ggacctggt 180
ttttaggac aggtaccgc tggcctgagg cttggatcat tcanagcctg ggggtggaat 240
ggctggcagc ctgtggcccc attgaaatag gctctggggc actccctctg ttcctanttg 300
aacttgggta aggaacagga atgtggtcan cctatggaat cttga 345
```

```
<210> 155
<211> 295
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
```


<222> 46, 199, 252, 266

<223> n = A,T,C or G

<400> 155

```
gacgcttggc cacttgacac attaaacagt tttgcataat cactancatg tattttctagt 60
ttgctgtctg ctgtgatgcc ctgccctgat tctctggcgt taatgatggc aagcataatc 120
aaacgctgtt ctgttaattc caagttataa ctggcattga ttaaagcatt atctttcaca 180
actaaactgt tcttcatana acagcccata ttattatcaa attaagagac aatgtattcc 240
aatatccttt anggccaaata tatttnatgt cccttaatta agagctactg tccgt      295
```

<210> 156

<211> 406

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 172, 178, 332, 338, 342, 381, 400, 402

<223> n = A,T,C or G

<400> 156

```
gacgcttggc cacttgacac tgcagtggga aaaccagcat gagccgctgc cccaaggaa 60
cctcgaagcc caggcagagg accagccatc ccagcctgca ggtaaagtgt gtcaoctgtc 120
aggtgggctt ggggtgagtg ggtgggggaa gtgtgtgtgc aaagggggtg tnaatgtnta 180
tgcgtgtgag catgagtgat ggctagtgtg actgcatgtc agggagtgtg aacaagcgtg 240
cgggggtgtg tgtgcaagtg cgtatgcata tgagaatatg tgtctgtgga tgagtgcatt 300
tgaaagtctg tgtgtgtgcg tgtggtcatg anggtaantt antgactgcg caggatgtgt 360
gagtgtgcat ggaacactca ntgtgtgtgt caagtggccn ancgtc      406
```

<210> 157

<211> 208

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 115, 119, 182, 187

<223> n = A,T,C or G

<400> 157

```
tgacgcttgg ccacttgaca cactaaaggg tgttactcat cactttcttc tctcctcggt 60
ggcatgtgag tgcattctatt cacttggcac tcatttgttt ggcagtgact gtaanccana 120
tctgatgcat acaccagctt gtaaattgaa taaatgtctc taatactatg tgctcacaat 180
anggtanggg tgaggagaag gggagaga      208
```

<210> 158

<211> 547

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 235

<223> n = A,T,C or G

<400> 158
 cttcaacctc cttcaacctc cttcaacctc ctggattcaa acaatcatcc cacctcagac 60
 tccttagtag ctgagactac agactcacgc cactacatct ggctaaattt ttgtagagat 120
 agggtttcat catgttgccc tggctggtct caaactcctg acctcaagca atgtgcccac 180
 ctcagcctcc caaagtgtcg ggattacagg cataagccac catgcccagt ccatntttaa 240
 tctttcctac cacattctta ccacactttc ttttatgttt agatacataa atgcttacca 300
 ttatgataca attgcccaca gtattaagac agtaacatgc tgcacagggt tgtagcctag 360
 gaacagtagg caataccaca tagcttaggt gtgtggtaga ctataaccatc taggtttgtg 420
 taagttacac tttatgtctg ttacacaatg acaaaacat ctaatgatgc atttctcaga 480
 atgtatcctt gtcagtaagc tatgatgtac aggggaacact gcccaaggac acagatattg 540
 tacctgt 547

<210> 159
 <211> 203
 <212> DNA
 <213> Homo sapiens

<400> 159
 gtcctcttg ccttaccaac tcaccagta tgtcagcaat tttatcrgct ttacctacga 60
 aacagcctgt atccaaacac ttaacacact cacctgaaaa gttcaggcaa caatcgctt 120
 ctcatgggtc tctctgctcc agttctgaac ctttctcttt tcctagaaca tgcatttarg 180
 tcgatagaag ttctctcag tgc 203

<210> 160
 <211> 402
 <212> DNA
 <213> Homo sapiens

<400> 160
 tgtaagtcga gcagtgtgat ggggtgaaca gggttgtaag cagtaattgc aaactgtatt 60
 taaacaataa taataatatt tagcattht agagcacttt atatcttcaa agtacttgca 120
 aacattayct aattaaatac cctctctgat tataatctgg atacaaatgc acttaaaactc 180
 aggacagggt catgagaraa gtatgcattt gaaagttggt gctagctatg ctttaaaaac 240
 ctatacaatg atgggraagt tagagttcag attctgttgg actgtttttg tgcatttcag 300
 ttcagcctga tggcagaatt agatcatatc tgcactcgat gactygtctt gataacttat 360
 cactgaaatc tgagtgttga tcatcacact gctcgactta ca 402

<210> 161
 <211> 193
 <212> DNA
 <213> Homo sapiens

<400> 161
 agcatgttga gccagacac tgaccaggag aaaaaccaac caatagaaac acgcccagac 60
 actgaccagg agaaaaacca accaataaaa acaggcccg acataagaca aataataaaa 120
 ttagcggaca aggacatgaa aacagctatt gtaagagcgg atatagtgggt gtgtgtctgg 180
 gctcaacatg cta 193

<210> 162
 <211> 147
 <212> DNA
 <213> Homo sapiens

<400> 162
 tgttgagccc agacactgac caggagaaaa accaaccaat aaaaacaggc ccggacataa 60
 gacaaataat aaaattagcg gacaaggaca tgaaaacagc tattgtaaga gcggatatag 120
 tgggtgtgtgt ctgggctcaa catgcta 147

<210> 163
 <211> 294
 <212> DNA
 <213> Homo sapiens

<400> 163
 tagcatgttg agcccagaca caaatctttc cttaagcaat aaatcatttc tgcataatggt 60
 tttaaaacca cagctaagcc atgattattc aaaaggacta ttgtattggg tatttttgatt 120
 tgggttctta tctccctcac attatcttca tttctatcat tgacctctta tcccagagac 180
 tctcaaactt ttatgtttata caaatcacat tctgtctcaa aaaatatctc acccacttct 240
 cttctgtttc tgcgtgtgta tgtgtgtgtg tgtgtgtctg ggctcaacat gcta 294

<210> 164
 <211> 412
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 292
 <223> n = A,T,C or G

<400> 164
 cgggattggc tttgagctgc agatgctgcc tgtgaccgca cccggcgtgg aacagaaagc 60
 cacctggctg caagtgcgcc agagccgccc tgactacgtg ctgctgtggg gctggggcgt 120
 gatgaactcc accgccctga aggaagccca ggccaccgga taccctcccg acaagatgta 180
 cggcgtgtgg tgggccgggt cggagcccgga tgtgcgtgac gtgggcgaag gcgccaaggg 240
 ctacaacgcg ctggctctga acggctacgg cacgcagtcc aaggtgatcc angacatcct 300
 gaaacacgtg caccgacaagg gccagggcac ggggcccaaa gacgaagtgg gctcgggtgct 360
 gtacaccgcg ggcgtgatca tccagatgct ggacaagggtg tcaatcacta at 412

<210> 165
 <211> 361
 <212> DNA
 <213> Homo sapiens

<400> 165
 ttgacacctt gtccagcatc tgcactctgat gagagcctca gatggctacc actaatggca 60
 gaaggcaaag gagaacaggc attgtatggc aagaaaggaa gaaagagaga ggggagaaag 120
 gtgctagggt cttttcaaca accagttctt gatggaactg agagtaagag ctcaaggcca 180
 ggtgtggtga ctccaaccag taatcccaac attttaggag gctgaggcag gcagatgtct 240
 tgaccccatg agtttgtgac cagcctgaac aacatcatga gactccatct ctacaataat 300
 tacaaaaatt aatcaggcat tgtggtatgc cctgtagtcc cagatgctgg acaagggtgc 360
 a 361

<210> 166
 <211> 427
 <212> DNA
 <213> Homo sapiens

<400> 166
 twgactgact catgtcccct acacccaact atcttctcca ggtggccagg catgatagaa 60
 tctgacccctg acttagggga atattttctt tttacttccc atcttgattc cctgccgggtg 120
 agtttctctgg ttcagggtta gaaaggagct caggccaaag taatgaacaa atccatcctc 180
 acagacgtac agaataagag aacwtggacw tagccagcag aacmcaaktg aaamcagaac 240
 mcttamctag gatracaamc mcrraratar ktgcycmcmc wtataataga aaccaaactt 300
 gtatctaatt aaatatttat ccacygtcag ggcatttagtg gttttgataa atacgctttg 360
 gctaggattc ctgagggttag aatggaaraa caattgcamc gagggtaggg gacatgagtc 420
 aktctaa 427

<210> 167
 <211> 500
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 288, 303, 318, 326
 <223> n = A,T,C or G

<400> 167
 aacgtcgcat gctcccggcc gccatggccg cgggatagac tgactcatgt cccctaagat 60
 agaggagaca cctgctaggt gtaaggagaa gatgggttagg tctacggagg ctccagggtg 120
 ggagtagttc cctgctaagg gagggtagac tgttcaacct gttcctgctc cggcctccac 180
 tatagcagat gcgagcagga gtaggagaga gggaggttaag agtcagaagc ttatgttgtt 240
 tatgccccga aacgccrtat cgggggcagc cragttatta ggggacantr tagwyartcw 300
 agntagcatc caaagcgngg gagttntccc atatggttgg acctgcaggc ggccgcatta 360
 gtgattagca tgtgagcccc agacacgcat agcaacaagg acctaaactc agatcctgtg 420
 ctgattactt aacatgaatt attgtattta tttacaactt ttgagttatg aggcataatta 480
 ttaggtccat attacctgga 500

<210> 168
 <211> 358
 <212> DNA
 <213> Homo sapiens

<400> 168
 ttcacgtctc ggtgactcaa gcctgtaatc ccagaacttt gggaggccga ggggagcaga 60
 tcacctgagg ttgggagttt gagaccagcc tggccaacat ggtgacaacc cgtctctgct 120
 aaaaatacaa aaattagcca agcatggtgg catgcacttg taatcccagc tactcgggag 180
 gctgaggcag gagaatcact tgaggccagg aggcagaggt tgcagtgagg cagaggttga 240
 gatcatgcca ctgcactcca gcctgggcaa cagagtaaga ctccatctca aaaaaaaaaa 300
 aaaaaaagaa tgatcagagc cacaaatata gaaaaccttg agtcaccgag cgatgaaa 358

<210> 169
 <211> 1265
 <212> DNA
 <213> Homo sapiens

<400> 169
 ttctgtccac accaatctta gagctctgaa agaatttgtc tttaaatata ttttaatagt 60
 aacatgtatt ttatggacca aattgacatt ttcgactatt ttttcccaaa aaaagtcagg 120
 tgaatttcag cacactgagt tgggaatttc ttatccaga agwcggcacg agcaatttca 180

```

tattttattta agattgattc catactccgt tttcaaggag aatccctgca gtctccttaa 240
aggtagaaca aatactttct attttttttt caccattgtg ggattggact ttaagaggtg 300
actctaaaaa aacagagAAC aaatatgtct cagttgtatt aagcacggac ccatattatc 360
atattcactt aaaaaaatga tttcctgtgc accttttggc aacttctctt ttcaatgtag 420
ggaaaaactt agtcaccctg aaaaccaca aaataaataa aacttgtaga tgtgggcaga 480
argtttgggg gtggacattg tatgtgttta aattaaaccC tgtatcactg agaagctgtt 540
gtatgggtca gagaaaatga atgcttagaa gctgttcaca tcttcaagag cagaagcaaa 600
ccacatgtct cagctatatt attatttatt ttttatgcat aaagtgaatc atttcttctg 660
tattaatttc caaagggttt taccctctat ttaaatgctt tgaaaaacag tgcattgaca 720
atgggttgat atttttcttt aaaagaaaaa tataattatg aaagccaaga taatctgaag 780
cctgttttat tttaaaactt tttatgttct gtggttgatg ttgtttgttt gtttgtttct 840
attttgttgg ttttttactt tgtttttgt tttgtttgt tttggtttdg catactacat 900
gcagtttctt taaccaatgt ctgtttggt aatgtaatta aagttgttaa tttatatgag 960
tgcatttcaa ctatgtcaat ggtttcttaa tatttattgt gtagaagtac tggtaatttt 1020
tttattttaca atatgtttaa agagataaca gtttgatatg ttttcatgtg tttatagcag 1080
aagttatttta tttctatggc attccagcgg atattttggt gtttgcgagg catgcagtca 1140
atattttgta cagtttagtg acagtattca gcaacgcctg atagcttctt tggccttatg 1200
ttaaataaaa agacctgttt gggatgtaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1260
aaaaa

```

```

<210> 170
<211> 383
<212> DNA
<213> Homo sapiens

```

```

<400> 170
tgtaagtcga gcagtgatg gacgatattc ttcttattaa tgtggtaatt gaacaaatga 60
tctgtgatac tgatcctgag ctaggaggcg ctgttcagtt aatgggactt ctctgtactc 120
taattgatcc agagaacatg ctggctacaa ctaataaaac cgaaaaaagt gaattttctaa 180
attttttcta caaccattgt atgcatgttc tcacagcacc acttttgacc aatacttcag 240
aagacaaatg tgaaaaggat aatatagttg gatcaaacaa aaacaacaca atttgtcccg 300
ataattatca aacagcacag ctactgcct taattttaga gttactcaca ttttgtgtgg 360
aacatcacac tgctcgactt aca

```

```

<210> 171
<211> 383
<212> DNA
<213> Homo sapiens

```

```

<400> 171
tgggcacctt caatatcgca agttaaaaat aatgttgagt ttattatact tttgacctgt 60
ttagctcaac aggggtgaagg catgtaaaga atgtggactt ctgaggaatt ttctttttaa 120
aagaacataa tgaagtaaca ttttaattac tcaaggacta cttttggttg aagtttataa 180
tctagatacc tctacttttt gtttttgctg ttcgacagtt cacaaagacc ttcagcaatt 240
tacagggtaa aatcgttgaa gtagtggagg tgaaactgaa atttaaaatt attctgtaaa 300
tactataggg aaagaggctg agcttagaat cttttggttg ttcatgtgtt ctgtgctctt 360
atcatcacac tgctcgactt aca

```

```

<210> 172
<211> 699
<212> DNA
<213> Homo sapiens

```

```

<220>

```

<221> misc_feature
 <222> 641
 <223> n = A,T,C or G

<400> 172
 tcgggtgatg cctcctcagg cttgtcgtta gtgtacacag agctgctcat gaagcgacag 60
 cggctgcccc tggcacttca gaacctcttc ctctacactt ttgggtgcgt tctgaatcta 120
 ggtctgcatg ctggcgggcg ctctggccca ggccctcctgg aaagtttctc aggatgggca 180
 gcactcgtgg tgctgagcca ggcactaaat ggactgctca tgtctgctgt catggagcat 240
 ggcagcagca tcacacgcct ctttgtggtg tcctgctcgc tgggtggtaa cgcctgtctc 300
 tcagcagtcg tgctacggct gcagctcaca gccgccttct tcctggccac attgctcatt 360
 ggccctggcca tgcgcctgta ctatggcagc cgctagtccc tgacaacttc caccctgatt 420
 ccggaccctg tagattgggc gccaccacca gatccccctc ccaggccttc ctccctctcc 480
 catcagcggc cctgtaacaa gtgccttggt agaaaagctg gagaagtga ggcagccagg 540
 ttattctctg gaggttggtg gatgaagggg tacccttagg agatgtgaag tgtggggttg 600
 gttaaggaaa tgcttaccat cccccacccc caaccaagtt nttccagact aaagaattaa 660
 ggtaacatca atacctaggc ctgaggaggc atcacccga 699

<210> 173
 <211> 701
 <212> DNA
 <213> Homo sapiens

<400> 173
 tcgggtgatg cctcctcagg ccagatcaaa cttgggggttg aaaactgtgc aaagaaatca 60
 atgtcggaga aagaattttg caaaagaaaa atgcctaata agtactaatt taatagggtca 120
 cattagcagt ggaagaagaa atgttgatat tttatgtcag ctattttata atcaccagag 180
 tgcttagctt catgtaagcc atctcgtatt cattagaaat aagaacaatt ttattcgtcg 240
 gaaagaactt ttcaatttat agcatcttaa ttgctcagga ttttaaattt tgataaagaa 300
 agctccactt ttggcaggag tagggggcag ggagagagga ggctccatcc acaaggacag 360
 agacaccagg gccagtaggg tagctggtgg ctggatcagt cacaacggac tgacttatgc 420
 catgagaaga aacaacctcc aaatctcagt tgcttaatac aacacaagct catttcttgc 480
 tcacgttaca tgtcctatgt agatcaacag caggtgactc agggacccag gctccatctc 540
 catatgagct tccatagtca ccaggacacg ggctctgaaa gtgtcctoca tgcagggaca 600
 catgcctctt cctttcattg ggcagagcaa gtcacttatg gccagaagtc acactgcagg 660
 gcagtgccat cctgctgtat gcctgaggag gcatcacccg a 701

<210> 174
 <211> 700
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 19
 <223> n = A,T,C or G

<400> 174
 tcgggtgatg cctcctcang cccctaaatc agagtccagg gtcagagcca caggagacag 60
 ggaaagacat agattttaac cggccccctt caggagattc tgaggctcag ttcactttgt 120
 tgcagtttga acagaggcag caaggctagt ggttaggggc acggtctcta aagctgcact 180
 gccctggatct gccctccgac tctgcccagg accagctgcg tggccttgag ctgctgacac 240
 gcagaaagcc cctgtggac ccagtctcct cgtctgtaag atgaggacag gactctagga 300
 aocctttccc ttggtttggc ctcaactttca caggctccca tcttgaactc tatctactct 360

```

tttctgaaa ccttgtaaaa gaaaaaagtg ctagcctggg caacatggca aaaccctgtc 420
tctacaaaa atacaaaaat tagttgggtg tggtagcatg tgctgtagt cccagccact 480
tgaggaggtg tgaggtagga ggatcacttg agcccgaggag gtggagggtg cagttagcca 540
agatcatgcc actgcactcc agcctgagta atagagtaag actctgtctc aaaaacaaca 600
acaacaacag tgagtgtgcc tctgtttccg ggttagatgg ggcaccacat ttatgcatct 660
ctcagatttg gacgctgcag cctgaggagg catcacccga 700

```

```

<210> 175
<211> 484
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 30
<223> n = A,T,C or G

```

```

<400> 175
tatagggcga attgggcccg agttgcatgn tcccgccgcg catggccgcg ggattcgggt 60
gatgcctcct caggcttgct tgccacaagc tacttctctg agctcagaaa gtgccccttg 120
atgagggaat atgtcctact gcactgcgaa tttctcagtt ccattttacc tcccagtcct 180
ccttctaacc cagttaataa attcattcca caagtattta ctgattacct gcttctgcca 240
gggactattc tcaggctgaa gaaggtagga ggggaggcgc gaacctgagg agccacctga 300
gccagcttta ttttcaacc atggctggcc catctgagag catctcccca ctctcgccaa 360
cctatcgagg catagcccag ggatgcccc aggcggccca ggtagatgc gtcccttttg 420
cttgtcagtg atgacataca ccttagctgc ttagctgggtg ctggcctgag gaggcatcac 480
ccga 484

```

```

<210> 176
<211> 432
<212> DNA
<213> Homo sapiens

```

```

<400> 176
tcgggtgatg cctcctcagg gctcaaggga tgagaagtga cttctttctg gagggaccgt 60
tcatgccacc caggatgaaa atggataggg acccacttgg aggacttgct gatatgtttg 120
gacaaatgcc aggtagcggg attggtactg gtccaggagt tatccaggat agattttcac 180
ccaccatggg acgtcatcgt tcaaatcaac tcttcaatgg ccatggggga cacatcatgc 240
ctccacaca atcgagttt ggagagatgg gaggcaagtt tatgaaaagc caggggctaa 300
gccagctcta ccataaccag agtcagggac tcttatccca gctgcaagg cagtcgaagg 360
atatgccacc tcggttttct aagaaaggac agcttaatgc agatgagatt agcctgagga 420
ggcatcacc ga 432

```

```

<210> 177
<211> 788
<212> DNA
<213> Homo sapiens

```

```

<400> 177
tagcatgttg agccagaca cagtagcatt tgtgccatt tctggttga atggtgacaa 60
catgctggag ccaagtgcta acatgccttg gttcaaggga tggaaagtca cccgtaagg 120
tggaatgcc agtgaacca cgctgcttga ggctctggac tgcatcctac caccaactcg 180
cccaactgac aagcccttgc gcctgcctct ccaggatgtc tacaaaattg gtggtattgg 240
tactgttctt gttggccgag tggagactgg tgttctcaaa cccggtatgg tggtcacctt 300

```

```
<210> 178
<211> 786
<212> DNA
<213> Homo sapiens
```

```
<210> 179
<211> 796
<212> DNA
<213> Homo sapiens
```

$$\begin{array}{ll} \langle 210 \rangle & 180 \\ \langle 211 \rangle & 488 \end{array}$$

<212> DNA

<213> Homo sapiens

<400> 180

```

ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt 60
aaaacgacgg ccagtgaatt gtaatacgac tcaactatagg gcgaattggg cccgacgtcg 120
catgctcccg gccgccatgg ccgcgggata gcatgttgag cccagacacc tgcaggtcat 180
ttggagagat ttttcacgtt accagcttga tgggtctttt caggaggaga gacactgagc 240
actcccaagg tgaggttgaa gatttcctct agatagccgg ataagaagac taggagggat 300
gcctagaaaa tgattagcat gcaaatttct acctgccatt tcagaactgt gtgtcagccc 360
acattcagct gcttcttggt aactgaaaag agagagggtat tgagactttt ctgatggccg 420
ctctaacatt gtaacacagt aatctgtgtg tgtgtgggtg tgtgtgtgtg tctgggctca 480
acatgcta

```

<210> 181

<211> 317

<212> DNA

<213> Homo sapiens

<400> 181

```

tagcatgttg agcccagaca cggcgacggt acctgatgag tggggtgatg gcacctgtga 60
aaaggaggaa cgtcatcccc catgatattg gggaccaga tgatgaacca tggctccgcg 120
tcaatgcata tttaatccat gatactgctg attggaagga cctgaacctg aagtttgtgc 180
tgcaggttta tcgggactat tacctcacgg gtgatcaaaa ctctctgaag gacatgtggc 240
ctgtgtgtct agtaagggat gcacatgcag tggccagtgt gccaggggta tggttggtgt 300
ctgggctcaa catgcta

```

<210> 182

<211> 507

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 493

<223> n = A,T,C or G

<400> 182

```

tagcatgttg agcccagaca ctggctgtta gccaaatcct ctctcagctg ctccctgtgg 60
tttggtgact caggattaca gaggcatcct gtttcaggga acaaaaagat tttagctgcc 120
agcagagagc accacataca ttagaatggt aaggactgcc acctccttca agaacaggag 180
tgagggtggt ggtgaatggg aatggaagcc tgcattccct gatgcatttg tgctctctca 240
aatcctgtct tagtcttagg aaaggaagta aagtttcaag gacggttcog aactgctttt 300
tgtgtctggg ctcaacatgc tatcccgcg ccatggcggc cgggagcatg cgacgtcggg 360
cccaattcgc cctatagtga gtcgtattac aattcaactgg ccgtcgttt acaacgtcgt 420
gactgggaaa accctggcgt taccacaactt aatcgccctg cagcacatcc ccccttccca 480
gctggcgtaa tancgaaaag gcccgca

```

<210> 183

<211> 227

<212> DNA

<213> Homo sapiens

<400> 183

gatttacgct gcaacactgt ggaggtagcc ctggagcaag gcaggcatgg atgcttctgc 60
aatcccaaaa tggagcctgg tatttcagcc aggaatctga gcagagcccc ctctaattgt 120
agcaatgata agttattctc tttgttcttc aaccttccaa tagccttgag cttccagggg 180
agtgtcgta atcattacag cctgggtctcc acagtgttgc agcgtaa 227

<210> 184

<211> 225

<212> DNA

<213> Homo sapiens

<400> 184

ttacgctgca aactgtgga gcagattaac atcagaacttt tctatcaaca tgactggggg 60
tactaaaaag acaacaaatc aatggcttca aaagtctaag gaataatttc gatacttcaa 120
ctttataaaa cctgacaaaa ctatcaatca agcataaaga cagatgaaga acatttccag 180
atthtggcca atcagatatt ttacctccac agtgttgcag cgtaa 225

<210> 185

<211> 597

<212> DNA

<213> Homo sapiens

<400> 185

ggcccgcagct cgcattgtcc cggccgccat ggccgcggga ttctgttaggg tctctatcca 60
ctgggaccca taggctagtc agagtattta gagttgagtt cctttctgct tcccagaatt 120
tgaaagaaaa ggagtgaggt gatagagctg agagatcaga tttgcctctg aagcctgttc 180
aagatgtatg tgctcagacc ccaccactgg ggcctgtggg tgaggtoctg ggcatctatt 240
tgaatgaatt gctgaagggg agcactatgc caaggaaggg gaacccatcc tggcactggc 300
acaggggtca ccttatccag tgctcagtgc ttctttgctg ctacctgggt ttctctcata 360
tgtgaggggc aggttaagaag aagtgccrgr tgttgtgcga gttttagaac atctaccagt 420
aagtggggaa gtttcacaaa gcagcagctt tgttttgtgt attttcacct tcagtttagaa 480
gaggaaggct gtgagatgaa tgttagttga gtggaaaaga cgggtaagct tagtggatag 540
agaccctaac gaatcactag tgccgccgcc ttgcaggtcg accatatggg agagctc 597

<210> 186

<211> 597

<212> DNA

<213> Homo sapiens

<400> 186

ggcccgaagt tgcattgttc cggccgccat ggccgcggga ttctgttaggg tctctatcca 60
ctacctaaaa aatcccaaac atataactga actcctcaca cccaattgga ccaatccatc 120
accccagagg cctacagatc ctcccttgat acataagaaa atttcccaa actacctaac 180
tatatcattt tgcaagattt gttttaccaa attttgatgg cctttctgag cttgtcagtg 240
tgaaccacta ttacgaacga tcggatatta actgccctc accgtccagg tgtagctggc 300
aacatcaagt gcagtaaata ttcattaagt tttcacctac taagggtgctt aaacacccta 360
gggtgccatg tcggtagcag atcttttgat ttgtttttat ttcccataag ggtcctgttc 420
aaggatcaatc atacatgtag tgtgagcagc tagtcactat cgcattgactt ggaggggtgat 480
aatagaggcc tcctttgctg ttaaagaact cttgtcccag cctgtcaaag tggatagaga 540
ccctaacgaa tcactagtgc ggccgcctgc aggtcgacca tatgggagag ctcccaa 597

<210> 187

<211> 324

<212> DNA

<213> Homo sapiens

```
<210> 188
<211> 178
<212> DNA
<213> Homo sapiens
```

```
<400> 188
gcgcgggggat tcggggtgat acctctcat gccaaaatac aacgtntaat ttcacaactt 60
gccttccaat ttacgcattt tcaatttgc ctccccattt gttgagtcac aacaaacacc 120
attgccaga aacatgtatt acctaacatg cacatactct taaaactact catccctt 178
```

<400>	189						
tgacaccttg	tccagcatct	gacacagttct	tggtctcttg	aaaatatttg	ataaatgaaa	60	
atgaatttct	ttagcaagtg	gtataagctg	agaatatacg	tatcacatat	cctcattcta	120	
agacacattc	agtgtccctg	aaattagaat	aggacttaca	ataagtgtgt	tcactttctc	180	
aatagctgtt	attcaattga	tggtaggcct	taaaagtcaa	agaaatgaga	gggcatgtga	240	
aaaaaagctc	aacatcactg	atcattagaa	aacttccatt	caaacccccca	atgagatacc	300	
atctcatacc	agtcagaatg	gctattatta	aaaagtcaaa	aaataacaga	tgctggacaa	360	
ggtgtca						367	

```
<220>  
<221> misc_feature  
<222> 323  
<223> n = A,T,C or G
```

<400>	190						
gacaccttgt	ccagcatctg	acaacgctaa	cagcctgagg	agatctttat	ttattttattt	60	
agttttttact	ctggctaagc	agatggtggc	taaaacattc	atttacccat	ttatttcattt	120	
aattggttcct	gcaaggccta	tggatagagt	attgtccagc	actgctctcg	aagctaggag	180	
ctatggggatg	aacaagatag	gctacatcct	gttcccacag	aacttcact	ttagctggg	240	
aaacagatga	tatatacaaa	tatataaatg	aattcaggta	gttttaagta	cgaaaagaat	300	

aagaaagcag agtcatgatt tanaatgctg gaaacagggg ctattgcttg agatattgaa 360
 ggtgcccaa 369

<210> 191
 <211> 369
 <212> DNA
 <213> Homo sapiens

<400> 191
 tgacaccttg tccagcatct gcacagggaa aagaaactat taccagagtg aacaggcaac 60
 ctacagaatg ggagaaaatt ttgcaatct atccatctga caaagggcta atatccagaa 120
 tctacaaaga acttatacaa atttacaaga aacaaacaaa caaacaactc ctcaaaaagt 180
 ggggtgaagga tgtgaacaga cacttctcaa aagaagacat ttatggggcc acaaacata 240
 tgaaaaaaag ctcacatcat ctggtcacta gataaatgca aatcaaaacc acaatgagat 300
 accatctcat tccagttaga atggcaatca ttaaaaagtc aggaaacaac agatgctgga 360
 caaggtgtc 369

<210> 192
 <211> 449
 <212> DNA
 <213> Homo sapiens

<400> 192
 tgacgcttgg ccacttgaca cttcatcttt gcacagaaaa acttctttac agattttaatt 60
 caagactggg ctagtgacag tcttccagac attttttcat ttgttccata tacgtggaat 120
 tttaaaatca tgtttcatca gtttgaaatg atttgggctg ctaatcaaca caattggatc 180
 gactgttcta ctaaacaaca ggaaaatgtg tatctggcag cctgtggaga aacactaaac 240
 attgattttt ctttgccctt tacggacttt gttccagcta catgtaatac caagttctct 300
 ttaagaggag aagatgttga tcttcatttg tttctaccag actgccaccc tagtaaatat 360
 tctttattta tgctggtaaa aaattgccat ccaaataaga tgattcatga tactggtatt 420
 cctgctgagt gtcaagtggc caagcgtca 449

<210> 193
 <211> 372
 <212> DNA
 <213> Homo sapiens

<400> 193
 tgacgcttgg ccacttgaca ccagggatgt akcagttgaa tataatcctg caattgtaca 60
 tattggcaat ttcccatcaa acattctaga aagagacaac caggattgct aggccataaa 120
 agctgcaata aataactggg aattgcagta atcatttcag gccaatcaa tccagtttgg 180
 ctacagagtg cctttggctg agagaagagg tgagatataa tgtgttttct tgcaacttct 240
 tggaagaata actccacaat agtctgagga ctagatacaa acctatttgc cattaaagca 300
 ccagagtctg ttaattccag tactgataag tgttgagat tagactccag tgtgtcaagt 360
 ggccaagcgt ca 372

<210> 194
 <211> 309
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 140, 205

<223> n = A,T,C or G

<400> 194

```

tgacgcttgg ccacttgaca cttatgtaga atccatcgtg ggctgatgca agccctttat 60
ttaggcttag tgttgtgggc accttcaata tcacactaga gacaaacgcc acaagatctg 120
cagaaacatt cagttctgan cactcgaatg gcaggataac tttttgtgtt gtaatccttc 180
acatatataa aaacaaactc tgcantctca cgttacaaaa aaacgtactg ctgtaaaata 240
ttaagaaggg gtaaaggata ccacttataa caaagtaact tacaactagt gtcaagtggc 300
caagcgtca                                     309

```

<210> 195

<211> 312

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 100, 270

<223> n = A,T,C or G

<400> 195

```

tgacgcttgg ccacttgaca cccaatctcg cacttcatcc tcccagcacc tgatgaagta 60
ggactgcaac tatccccact tcccagatga ggggaccaan gtacacatta ggaccgcat 120
gggagcacag atttgtccga tcccagactc caagcactca gcgtcactcc aggacagcgg 180
ctttcagata aggtcacaaa catgaatggc tccgacaacc ggagtcagtc cgtgctgagt 240
taaggcaatg gtgacacgga tgcacgtgtn acctgtaatg gttcatcgta agtgtcaagt 300
ggccaagcgt ca                                     312

```

<210> 196

<211> 288

<212> DNA

<213> Homo sapiens

<400> 196

```

tgtatcgacg tagtgggtctc ctcagccatg cagaactgtg actcaattaa acctctttcc 60
tttatgaatt acccaatctc gggtagtgtc tttatagtag tgtgagaatg gactaataca 120
agtacatttt acttagtaat aataataaac aaatatatta cattttttgtg tatttactac 180
accatatttt ttattgttat tgtagtgtag accttctact tattaaaaga aataggcccg 240
aggcgggcag atcacgaggt caggagatgg agaccactac gtcgatac 288

```

<210> 197

<211> 289

<212> DNA

<213> Homo sapiens

<400> 197

```

ttgggcacct tcaatatcat gacaggtgat gtgataacca agaaggctac taagtgatta 60
atgggtgggt aatgtatata gagtaggtac actggacaga ggggtaattc atagccaagg 120
caggagaagc agaatggcaa aacatttcat cacactactc aggatagcat gcagttttaa 180
acctataagt agtttatttt tgggaatttt cacttaatat tttcagactg caggtaacta 240
aactgtggaa cacaagaaca tagataaggg gagaccacta cgtcgatac 289

```

<210> 198

<211> 288

<212> DNA

<213> Homo sapiens

<400> 198

```
gtatcgacgt agtgggtctcc caagcagtgg gaagaaaacg tgaaccaatt aaaatgtatc 60
agatacccca aagaaaggcg cttgagtaaa gattccaagt gggtcacaat ctcagatctt 120
aaaattcagg ctgtcaaaga gatttgctat gaggttgctc tcaatgactt caggcacagt 180
cggcaggaga ttgaagccct ggccattgtc aagatgaagg agctttgtgc catgtatggc 240
aagaaagacc ccaatgagcg ggactcctgg agaccactac gtcgatac 288
```

<210> 199

<211> 1027

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 17, 21, 36, 39, 40, 42, 63, 98, 116, 145, 162, 173, 865,
885, 891, 916, 924, 927, 929, 934, 942, 949, 976, 983, 988,
989, 1009, 1014

<223> n = A,T,C or G

<400> 199

```
gctttttggg aaaaacncaa ntgggggaaa gggggnttnn tngcaagggg ataaaggggg 60
aancccaggg tttccccatt caggggaggtg taaaaagncg gccaggggat tgtaanagga 120
ttcaataata gggggaatgg gcccnagaat tgcaagggtc cngcccgcga tgnccgcggg 180
atttagtgac attacgacgs tggtataaaa gtgggsccaa waaatatttg tgatgtgatt 240
tttsgaccag tgaacccatt gwacaggacc tcatctccty tgagatgrta gccataatca 300
gataaaagrt tagaagtytt tctgcacgtt aacagcatca ttaaattggag tggcatcacc 360
aatctcacc tttgttagcc gataccttcc ccttgaagge attcaattaa gtgaccaatc 420
gtcatacagag aggggatggc atgggggattg atgatgatat caggggtgat accttcacag 480
gtgaaaaggca tatcctcttg tctatactga ataccacaag tacccttttg accatgtcga 540
ctagcaaat tgtctccaat ctgtgtwalc cctaacagag cgtaccctta tttacaaaa 600
tttatatcct tctgattga gagttaccat aacctgatcc acaatgcccg tctcgctwgt 660
tctgagaaaa gtgctacagt ctctcttggt atagcgtcta ttggtgctct ccaattcatc 720
ttcatttttc aggcaagggtg aactgttttg cctataataa cmtcatctcc tgatacmcga 780
aaccckkga rctatcaaac catcatcatc cagcgttckt watgtymcta aatccctatt 840
gcggccgcct gcagggtcaac atatnggaaa acccccacc ccttnggagc ntaccttgaa 900
ttttccatat gtccntaaa ttanctngnc ttanctggc cntaacctnt tccggtttaa 960
attgtttccg ccccnttcc ccnccttnna accggaaacc ttaattttna accnggggtt 1020
cctatcc 1027
```

<210> 200

<211> 207

<212> DNA

<213> Homo sapiens

<400> 200

```
agtacatta cgacgctggc catcttgaat cctagggcat gaagttgcc caaagttcag 60
cacttggta agcctgatcc ctctggttta tcacaaagaa taggatggga taaagaaagt 120
ggacacttaa ataagctata aattatatgg tcttgtcta gcaggagaca actgcacagg 180
tatactacca gcgtcgtaat gtcacta 207
```

<210> 201

<211> 209
 <212> DNA
 <213> Homo sapiens

<400> 201
 tgggcacctt caatatctat taaaagcaca aatactgaag aacacaccaa gactatcaat 60
 gaggttacat ctggagtcct cgatatatca ggaaaaaatg aagtgaacat tcacagagtt 120
 ttacttcttt gggaactcaa atgctagaaa agaaaagggt gccctctttc tctggcttcc 180
 tggtcctatc cagcgtcgta atgtcacta 209

<210> 202
 <211> 349
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 1
 <223> n = A,T,C or G

<400> 202
 ntacgtgca aactgtgga gccactgggt tttattcccg gcaggttatc cagcaaacag 60
 tactgaaca caccgaagac cgtgggtatg taaccgttca cagtaatcgt tccagtcgtc 120
 tgcgggaccc cgacgagcgt cactgggtac agaccagatt cagccggaag agaaagcgcc 180
 gcaggagag actcgaactc cactcgcgtg gtgagcagcc ccatgttttc aactcgaagt 240
 tcaaacggca ttgggttata taccatcagc tgaacttcac acacatctcc ttgaaccac 300
 tggaaatcta ttttcttggt ccgctcttct ccacagtgtt gcagcgtaa 349

<210> 203
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 203
 tgctcctctt gccttaccaa cccaaagccc actgtgaaat atgaagtga tgacaaaatt 60
 cagttttcaa cgcaatatag tatagtttat ctgattcttt tgatctccag gacactttaa 120
 acaactgcta ccaccaccac caacctaggg atttaggatt ctccacagac cagaaattat 180
 ttctcctttg agtttcaggc tcctctggga ctctgttca tcaatgggtg gtaaatggct 240
 a 241

<210> 204
 <211> 248
 <212> DNA
 <213> Homo sapiens

<400> 204
 tagccattta ccaccatct gcaaaccswg acmwwcargr cywgwackya ggcgatttga 60
 agtactggta atgctctgat catgttagtt acataagtgt ggtcagttta caaaaattca 120
 cagaactaaa tactcaatgc tatgtgttca tgtctgtgtt tatgtgtgtg taatgtttca 180
 attaagtttt tttaaaaaaa agagatgatt tccaaataag aaagccgtgt tggttaaggca 240
 agaggagc 248

<210> 205
 <211> 505

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 447
 <223> n = A,T,C or G

<400> 205
 tacgctgcaa cactgtggag ccattcatac aggtccctaa ttaaggaaca agtgattatg 60
 ctacctttgc acggttaggg tacgcgggcc gttaaacaatg tgtcactggg caggcgggtgc 120
 ctctaatact ggtgatgcta gaggtgatgt ttttggtaaa caggcggggg aagatttgcc 180
 gaggtccttt tacttttttt aaccttttct tatgagcatg cctgtgttgg gttgacagtg 240
 ggggtaataa tgacttggtg gttgattgta gatattgggc tgtaattgt cagttcagtg 300
 ttttaactctg acgcaggctt atgcggagga gaattgtttc atgttactta tactaacatt 360
 agttcttcta tagggtgata gattgggtcca attgggtgtg aggagttcag ttatatgttt 420
 gggatttttt aggtagtggg tgttgancct gaacgccttc ttaattgggtg gctgctttta 480
 rgctactat gggtggtaaa tggct 505

<210> 206
 <211> 179
 <212> DNA
 <213> Homo sapiens

<400> 206
 tagactgact catgtcccct accaaagccc atgtaaggag ctgagttctt aaagactgaa 60
 gacagactat tctctggaga aaaataaaat ggaaattgta ctttaaaaaa aaaaaaaatc 120
 ggccgggcat ggtagcacac acctgtaatc ccagctacta ggggacatga gtcagtcta 179

<210> 207
 <211> 176
 <212> DNA
 <213> Homo sapiens

<400> 207
 agactgactc atgtccccta cccacacctt tctgtgtgtg ccgtgttctt aacaggtcac 60
 agactggtac tggtcagtgg cctggggggtt ggggacctct attatatggg atacaaattt 120
 aggagtggga attgacacga tttagtgtact gatgggatat ggggtggtaaa tggcta 176

<210> 208
 <211> 196
 <212> DNA
 <213> Homo sapiens

<400> 208
 agactgactc atgtccccta tttaacaggg tctctagtgc tgtgaaaaaa aaaaatgctg 60
 aacattgcat ataacttata ttgtaagaaa tactgtacaa tgactttatt gcatctgggt 120
 agctgtaagg catgaaggat gccaaagaagt ttaaggaata tgggtggtaa atggctaggg 180
 gacatgagtc agtcta 196

<210> 209
 <211> 345
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature

<222> 53, 56

<223> n = A,T,C or G

<400> 209

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gacgcttggc cacttgacac cttttatatt ttaaggattc ttaagtcatt tangtnactt 60
tgtaagtatt tcctgtgccc ccataagaat gatagcttta aaaattatgc tggggtagca 120
aagaagatac ttctagcttt agaattgtga ggtatagcca ggattcttgt gaggaggggt 180
gatttagagc aaattttctta ttctccttgc ctcatctgta acatggggat aataatagaa 240
ctggcttgac aaggttggaa ttagtattac atggtaaata catgtaaaat gtttagaatg 300
tgccaagta tctaggaagt acttgggcat ggggtggttaa tggct 345
```

<210> 210

<211> 178

<212> DNA

<213> Homo sapiens

<400> 210

```
gacgcttggc caottgacac tagagtaggg tttggccaac tttttctata aaggaccaga 60
gagtaaatat ttcaggcttt gtgggttgtg cagtctctct tgcaactact cagctctgcc 120
attgtagcat agaaatcagc catagacagg acagaaatga atgggtggta aatggcta 178
```

<210> 211

<211> 454

<212> DNA

<213> Homo sapiens

<400> 211

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tgggcacatt caatatctat ccagcgcac taaattcgct tttttcttga ttaaaaattt 60
caccacttgc tgtttttgct catgtatacc aagtagcagt ggtgtgaggc catgcttggt 120
ttttgattcg atatcagcac cgtataagag cagtgccttg gccattaatt tatcttcatt 180
gtagacagca tagttagag tggtatctcc atactcatct ggaatatttg gatcagtgcc 240
atgttccagc aacattaacg cacattcacc ttcttggcat tgtacggcct ttgtcagagc 300
tgtcctcttt ttgttgtoaa ggacattaag ttgacatcgt ctgtccagca cgagttttac 360
tacttctgaa ttcccatttg cagaggccag atgtagagca gtcctctttt gcttgtccct 420
cttgttcaca tcagtgtccc tgagcataac ggaa 454
```

<210> 212

<211> 337

<212> DNA

<213> Homo sapiens

<400> 212

```
tccgttatgc caccagaaa acctactgga gttacttatt aacatcaagg ctggaaccta 60
tttgccctcag tcctatctga ttcattgagca catgggttatt actgatcgca ttgaaaacat 120
tgatcacctg ggtttcttta tttatcgact gtgtcatgac aaggaaactt acaaactgca 180
acgcagagaa actattaaag gtattcagaa acgtgaagcc agcaattgtt tcgcaattcg 240
gcattttgaa aacaaatttg ccgtggaaac ttttaatttg tcttgaacag tcaagaaaaa 300
cattattgag gaaaaattaat atcacagcat aacggaa 337
```

<210> 213

<211> 715

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 552, 630, 649, 657, 691, 693, 697
<223> n = A,T,C or G

<400> 213
tcgggtgatg cctcctcagg catcttccat ccatctcttc aagattagct gtcccaaagt 60
tttttccttc tcttctttac tgataaattt ggactccttc ttgacactga tgacagcttt 120
agtatccttc ttgtcacctt gcagacttta aacataaaaa tactcattgg ttttaaaagg 180
aaaaaagtat acattagcac tattaagctt ggccttgaaa cattttctat cttttattaa 240
atgtcgggta gctgaacaga attcatttta caatgcagag tgagaaaaga agggagctat 300
atgcatttga gaatgcaagc attgtcaaatt aaacatttta aatgctttct taaagtgagc 360
acatacagaa atacattaag atattagaaa gtgtttttgc ttgtgtacta ctaattaggg 420
aagcaccttg tatagttcct cttctaaaat tgaagtagat tttaaaaacc catgtaattt 480
aattgagctc tcagttcaga ttttaggaga attttaacag ggatttggtt ttgtctaaat 540
tttgtcaatt tnttttagtta atctgtataa tttataaat gtcaaactgt atttagtccg 600
ttttcatgct gctatgaaag aaatacccan gacagggtta tttataaang gaaagangtt 660
aatttgactc ccagttcaca ggctgagga ngnatcnccc gaaatcctta ttgcg 715

<210> 214
<211> 345
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 6, 8, 15
<223> n = A,T,C or G

<400> 214
ggtaangngc atacntcggg gctccggccg ccggagtcgg gggattcggg tgatgcctcc 60
tcaggccac ttgggcctgc ttttcccaaa tggcagctcc tctggacatg ccattccttc 120
tcccacctgc ctgattcttc atatgttggg tgtccctggt tttctgggtg tatttcctga 180
ctgctgttca gctgccactg tcctgcaaag cctgcctttt taaatgcctc accattcctt 240
catttgtttc ttaaatatgg gaagtgaag tgcacactga ggccgggcac agtgggtcac 300
gcctgtaatc ccagcaactt gggagcctga ggaggcatca cccga 345

<210> 215
<211> 429
<212> DNA
<213> Homo sapiens

<400> 215
ggtgatgcct cctcaggcga agctcaggga ggacagaaac ctcccgtgga gcagaagggc 60
aaaagctcgc ttgatcttga ttttcagtac gaatacagac cgtgaaagcg gggcctcacg 120
atccttctga ccttttgggt ttttaagcagg aggtgtcaga aaagttacca cagggataac 180
tggtctgtgg cggccaagcg ttcatagcga cgtcgtttt tgatccttcg atgtcggctc 240
ttcctatcat tgtgaagcag aattcaccaa gcgttggatt gttcacccac taatagggaa 300
cgtgagctgg gtttagaccg tcgtgagaca ggtagtttt accctactga tgatgtgtkg 360
ttgccatggt aatcctgctc agtacgagag gaaccgcagg ttcasacatt tgggtgatgt 420
gcttgccctt 429

<210> 216
 <211> 593
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 15, 429, 446, 498, 512, 538, 543, 557
 <223> n = A,T,C or G

<400> 216
 tgacacctat gtcnngcatc tgttcacagt ttccacaaat agccagcctt tggccacctc 60
 tctgtcctga ggtatacaag tatatcagga ggtgtatacc ttctcttctc ttccccacca 120
 aagagaacat gcaggctctg gaagctgtct taggagcctt tgggctcaga atttcagagt 180
 cttgggtacc ttggatgtgg tctggaagga gaaacattgg ctctggataa ggagtacagc 240
 cggaggaggg tcacagagcc ctcagctcaa gcccctgtgc cttagtctaa aagcagcttt 300
 ggatgaggaa gcagggttaag taacatacgt aagcgtacac aggtagaaaag tgctgggagt 360
 cagaattgca cagtgtgtag gagtagtacc tcaatcaatg agggcaaadc aactgaaaga 420
 agaagaccna ttaatgaatt gcttangggg aaggatcaag gctatcatgg agatctttct 480
 aggaagatta ttgtttanaa ttatgaaagg antagggcag ggacagggcc agaagtanaa 540
 ganaacattg cctatanccc ttgtcttgca cccagatgct ggacaagggtg tca 593

<210> 217
 <211> 335
 <212> DNA
 <213> Homo sapiens

<400> 217
 tgacaccttg tccagcatct gacgtgaaga tgagcagctc agaggaggtg tcttggaattt 60
 cctggttctg tgggtccgt ggcaatgaat tcttctgtga agtggatgaa gactacatcc 120
 aggacaaatt taatcttact ggactcaatg agcaggctcc tcaactatga caagctctag 180
 acatgatctt ggacctggag cctgatgaag aactggaaga caaccccaac cagagtgaac 240
 tgattgagca ggacagccgag atgctttatg gattgatcca cgcccgtac atccttacca 300
 accgtggcat cgcccagatg ctggacaagg tgtca 335

<210> 218
 <211> 248
 <212> DNA
 <213> Homo sapiens

<400> 218
 tacgtactgg tcttgaaggt cttaggtaga gaaaaaatgt gaatatttaa tcaaagacta 60
 tgtatgaaat gggactgtaa gtacagaggg aaggggtggc cttatcgcca gaagttggta 120
 gatgcgtccc cgtcatgaaa tgttgtgtca ctgcccagaca tttgccgaat tactgaaatt 180
 ccgtagaatt agtgcaaatt ctaacgttgt tcatctaaga ttatggttcc atgtttctag 240
 tactttta 248

<210> 219
 <211> 530
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature

<222> 49, 216, 265, 275, 281, 296, 371, 407, 424, 429, 454, 456,
458, 464, 474, 476, 506, 509, 527, 530

<223> n = A,T,C or G

<400> 219

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tgacgcttgg ccacttgaca caagtagggg ataaggacaa agacccatna ggtggcctgt 60
cagccttttg ttactgttgc ttccctgtca ccacggcccc ctctgtaggg gtgtgctgtg 120
ctctgtggac attggtgcat ttccacacat accattctct ttctgcttca cagcagtcct 180
gaggcgggag cacacaggac taccttgtca gatgangata atgatgtctg gccaaactcac 240
cccccaacct tctcactagt tatangaaga gccangccta naaccttcta tctgncccc 300
ttgccctatg acctcatccc tgttccatgc cctattctga tttctgggtga actttggagc 360
agcctggttt ntcctcctca ctccagcctc tctccatacc atggtanggg ggtgctgttc 420
cacncaaang gtcagggtgtg tctggggaat cctnananct gccnggagtt tccnangcat 480
tcttaaaaac cttcttgctt aatcanatng tgtccagtgg ccaacntcn 530

```

<210> 220

<211> 531

<212> DNA

<213> Homo sapiens

<400> 220

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tgacgcttgg ccacttgaca ctaaatagca tcttctaaag gcctgattca gagttgtgga 60
aaattctccc agtgtcaggg attgtcagga acagggtctc tctgtgctc actttacctg 120
ctgtgtttct gctggaaaag gaggggaagag gaatggctga tttttacctt atgtctccca 180
gtttttcata ttcttcttgg atcctcttct ctgacaactg ttcccttttg gtcttcttct 240
tcttgctcag agagcaggtc tctttaaaac tgagaaggga gaatgagcaa atgattaaag 300
aaaacacact tctgaggccc agagatcaaa tattaggtaa atactaaacc gcttgccctg 360
tgtggtcact tttctcctct ttccatgct ctatccctct atccccacc tattcatatg 420
gcttttatct gccaaagtat ccggcctctc atcaaacctt tcccctagcc tactggggga 480
tatccatctg ggtctgtctc tgggtgtatt gtgtcaagtg gccaaagctc a 531

```

<210> 221

<211> 530

<212> DNA

<213> Homo sapiens

<400> 221

```

attgacgctt ggccacttga caccgcctg cctgcaatac tggggcaagg gccttcactg 60
ctttcctgcc accagctgcc actgcacaca gagatcagaa atgctaccaa ccaagactgt 120
tggtcctcag cctctctgag gagaaagagc agaagcctgg aagtcagaag agaagctaga 180
tcggctacgg ccttggcagc cagcttcccc acctgtggca ataaagtcgt gcatggctta 240
acaatggggg cacctcctga gaaacacatt gttaggcaat tcggcgtgtg ttcacagag 300
catatttaca caaacctcga tagtgacagc tactatccac tattgctcct acgctgcaaa 360
cctgaacagc atgggactgt actgaatact ggaagcagct ggtgatggta cttatttgtg 420
tatctaaaca cagagaaggt acagtaagaa tatggtatca taaacttaca gggaccgcca 480
tcctatatgc agtctgttgt gacaaaaatg tgtcaagtgg ccaagcgtca 530

```

<210> 222

<211> 578

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature
 <222> 308, 381, 561, 570, 573
 <223> n = A,T,C or G

<400> 222
 tgtatcgacg tagtgggtctc cgggctacta ggccgttggtg tgctggtagt acctgggttca 60
 ctgaaaggcg catctccctc cccgcgtcgc cctgaagcag ggggaggact tcgcccagcc 120
 aaggcagttg tatgagtttt agctgcggca cttcgagacc tctgagccca cctcccttcag 180
 gagccttccc cgattaagga agccagggtg aggattcctt cctccccag acaccacgaa 240
 caaaccacca cccccctat tctggcagcc catatacatc agaacgaaac aaaaataaca 300
 aataaaacnaa aaccaaaaaa aaaagagaag gggaaatgta tatgtctgtc catcctgttg 360
 ctttagcctg tcagctccta nagggcaggg accgtgtcct ccgaatggtc tgtgcagcgc 420
 cgactgcggg aagtatcgga ggaggaagca gagtgcagcag aagttgaacg gtgggcccgg 480
 cggctcttgg gggctgggtg tgtacttcga gaccgcttcc gctttttgtc ttagatttac 540
 gtttgctctt tggagtggga naccactacn tcnatata 578

<210> 223
 <211> 578
 <212> DNA
 <213> Homo sapiens

<400> 223
 tgtatcgacg tagtgggtctc ctcttgcaaa ggactggctg gtgaatgggtt tccctgaatt 60
 atggacttac cctaaacata tcttatcatc attaccagtt gcaaaatatt agaatgtgtt 120
 gtcactgttt catttgattc ctagaagggt agtcttagat atgttacttt aacctgtatg 180
 ctgtagtgct ttgaatgcat tttttgtttg catttttgtt tgcccaacct gtcaattata 240
 gctgcttagg tctggactgt cctggataaa gctgttaaaa tattcaccag tccagccatc 300
 ttacaagcta attaatgcaa ctaaagtctt ccttggtttg ccagacttgt tatgtcaatc 360
 ctcaatttct gggttcattt tgggtgcctt aaatcttagg gtgtgacttt cttagcatcc 420
 tgtaacatcc attcccaagc aagcacaact tcacataata ctttccagaa gttcattgct 480
 gaagccttcc cttcaccagc cggagcaact tgattttcta caacttcctt catcagagcc 540
 acaagagtat gggatatgga gaccactacg tcgataca 578

<210> 224
 <211> 345
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 13
 <223> n = A,T,C or G

<400> 224
 tgtatcgacg tantgggtctc ccaagggtgct gggattgcag gcatgagcca ccaactcccag 60
 gtggatcttt ttctttatata ttacttcaatt aggtttctgt tattcaagaa gtgtagtggt 120
 aaaagtcttt tcaatctaca tggttaaata atgatagcct gggaaataaa tagaaatttt 180
 ttctttcatc tttaggttga ataaagaaac agaaaaaata gaacatactg aaaataatct 240
 aagttccaac catagaagaa ctgcagaaga aatgaagaaa gtgatgatga tttagatttt 300
 gatattgatt tagaagacac aggaggagac cactacgtcg ataca 345

<210> 225
 <211> 347
 <212> DNA

<213> Homo sapiens

<400> 225

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tgtatcgacg tagtgggtctc caaactgagg tatgtgtgcc actagcacac aaagccttcc 60
aacagggacg caggcacagg cagtttaaaag ggaatctgtt tctaaattaa tttccacctt 120
ctctaagtat tctttcctaa aactgatcaa ggtgtgaagc ctgtgctctt tcccaactcc 180
cctttgacaa cagccttcaa ctaacacaag aaaaggcatg tctgacactc ttcctgagtc 240
tgactctgat acgttggttct gatgtctaaa gagctccaga acaccaaagg gacaattcag 300
aatgctggtg tataacagac tccaatggag accactacgt cgataca 347
```

<210> 226

<211> 281

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 4, 6, 11

<223> n = A,T,C or G

<400> 226

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aggngnggga ntgtatcgac gtagtgggtct cccaacagtc tgtcattcag tctgcaggtg 60
tcagtgtttt ggacaatgag gcaccattgt cacttattga ctctcagct ctaaattgctg 120
aaattaaatc ttgtcatgac aagtctggaa ttcttgatga ggtttttacaa agtatttttg 180
atcaatactc caacaaatca gaaagccaga aagaggatcc tttcaatatt gcagaaccac 240
gagtggattt acacacctca ggagaccact acgtcgatac a 281
```

<210> 227

<211> 3646

<212> DNA

<213> Homo sapiens

<400> 227

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gggaaacatc tcctcccagc cttgtaaggg ttggagccct ctccagtata tgctgcagaa 60
tttttctctc ggtttctcag aggattatgg agtccgcctt aaaaaaggca agctctggac 120
actctgcaaa gtagaatggc caaagtttgg agttgagtg ccccttgaag ggtcactgaa 180
cctcacaatt gttcaagctg tgtggcgggg ttgtactgaa actcccggcc tccctgatca 240
gtttccctac attgatcaat ggctgagttt ggtcaggagc accccttcctg tggctccact 300
catgcaccat tcataatttt acctccaagg tcctcctgag ccagaccgtg ttttcgcctc 360
gaccctcagc cggttcggct cgcctgttac tgccctctctc tgaagaagag gagagtctcc 420
ctcaccagc cccaccgcct taaaaccagc ctactccctt agggtcaccc catgtctcct 480
cggctatgtc cctgttaggc tcatcaccga ttgcctcttg gttgcaaccg tgggtgggagg 540
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acacattggc ccacctggga tgactgtcaa cagctccttt tgaccctttt cacctctgaa 780
gagagggaaa gtatccaaaag agaggccaaa aagtacaacc tcacatcaac caataggccg 840
gaggaggaag ctgagaggaat agtgattaga gaccgaattg ggacctaatt gggacccaaa 900
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tgactctgga gcccccgaaa atagccatgc tcttaatttg gcattttgtg ctcaggcagc 1140
cccagatagt aaaagggaac tccaaaaact agagggtatt tgctggaatg aataccagtc 1200
agctttttaga gatagcctaa aagggtttttg acagtcaaga gggtgaaaaa caaaaacaag 1260
```

```

cagctcaggc agctgaaaaa agccactgat aaagcatcct ggagtatcag agtttactgt 1320
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ctaagttggg tgaagccatt agattaattc tttttcttaa ttttgtaaaa caatgcatag 3120
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ggccctccac cagcaaaaag attctgactc actgaagact tggatgatca ttagtatttt 3600
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```

```

<210> 228
<211> 419
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 402
<223> n = A,T,C or G

```

```

<400> 228
taagagggtg caagatctaa gcacagccgt caatgcagaa cacagaacgt agcctggtaa 60
gtgtgttaag agtgggaatt tttggagtac agagtaaggc acctaaccct agctgggggt 120

```

```

tggtgacggt cccagatggc ttacagaaga aagtgtcctg agatgagttt ttaagaatga 180
ataaggatag acacaagtga ggactgactt ggcagtgggt aatgggtgggt ggcaaaaaac 240
ttcgcatgta tggaaactgc acgtacagga atgaagaatg agactgtgtg gtgtttaatg 300
agctgcaaat actaatttta tcctgaaagt tttgaagagt taactaaaaa gtatttttta 360
gtaaggaaat aaccctacat ttcagggtta ttgtttgttt anatattgaa ggtgcccaa 419

```

<210> 229

<211> 148

<212> DNA

<213> Homo sapiens

<400> 229

```

aagagggtac ctgtatgtag ccatgggtggc aatgagagac tgattactac ctgctggaga 60
ttgtttaagt gagttaatat attaaggata aagggagcca ggttttttga ctgttggaga 120
aggaaattac agatattgaa ggtcccaa 148

```

<210> 230

<211> 257

<212> DNA

<213> Homo sapiens

<400> 230

```

taagagggtga cmaaaaaaaaa aaaatagaac gaatgagtaa gacctactat ttgatagtac 60
aacagggtga ctatagtcaa tgataactta attatacatt taacatagag tgtaattgga 120
ttgtttgttaa ctcgaaggat aaatgcttga gaggatggat accccattct ccatgatgta 180
cttatttcac attacatgcc tgtatcaaag catctcatat accctataaa tatgtacacc 240
tactatgtac cctctta 257

```

<210> 231

<211> 260

<212> DNA

<213> Homo sapiens

<400> 231

```

taagagggtga cgggtatttg ctgatgggat ttttttttct ttctttttct ttggaaaaca 60
aaatgaaagc cagaacaaaa ttattgaaca aaagacaggg actaaatctg gagaaatgaa 120
gtcccctcac ctgactgccca ttccattcta tctgaccttc cagtctaggt taggagaata 180
gggggtggag gggattaatc tgatacaggt atatttaaag caactctgca tgtgtgccag 240
aagtccatgg taccctctta 260

```

<210> 232

<211> 596

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 437, 440, 461, 536, 541, 565, 580, 587, 590, 595

<223> n = A,T,C or G

<400> 232

```

tgctcctctt gccttaccaa ccacaaatta gaaccataat gagatgtcac ctcatacctg 60
gtgggattaa cattatttaa aaaatcagaa gtattgacaa ggatgtgaag aaattagaac 120
atctgtgcac tgttggtggg aatgtaaaaa aggtgtggcc actatgggta acagcatgaa 180

```



```

ggttcctcaa aaaaaatttt ttttaatacta ctctatgata gatcttgagg ttgtttatgc 240
aaaagaactg aaatcaggat tttgaggaaa tattcacatt cccacatcca tttctgcttt 300
attcataata ctcaagagat ggaaacaacc taaatgtcca tcccgggatg aatggataaa 360
cacagtgtgg tatatgcata caatggaata ttatttagtc tttaaaaaga aaaattctat 420
catatactac aacttanatn aaccttgagg acacaatgct nagtgaaata agccacggaa 480
ggacgaatac tgcattattc ccttatatga agtatctaaa gtgggtcaaac tcttanagca 540
naaagtaaaa atgggtggtt gccanacagt tgggttaggcn agaaganaan cctant 596

```

<210> 233

<211> 96

<212> DNA

<213> Homo sapiens

<400> 233

```

tcttctgaag acctttcgcg actcttaagc tcgtggttgg taaggcaaga ggagcgttgg 60
taaggcaaga ggagcgttgg taaggcaaga ggagca 96

```

<210> 234

<211> 313

<212> DNA

<213> Homo sapiens

<400> 234

```

tgtaagtcga gcagtgtgat gataaaactt gaatggatca atagttagctt cttatggatg 60
agcaaagaaa gtagtttctt gtgatggaat ctgctcctgg caaaaatgct gtgaacgttg 120
ttgaaaagac aacaaagagt ttagagtagt acataaattt agaatagtac ataaacttag 180
aatagtagat aaacttagta cataaataat gcacgaagca ggggcagggc ttgagagaat 240
tgacttcaat ttggaagag tatctactgt aggttagatg ctctcaaaca gcatcacact 300
gctcgactta caa 313

```

<210> 235

<211> 550

<212> DNA

<213> Homo sapiens

<400> 235

```

aacgaggaca gatccttaaa aagaatgttg agtgaaaaaa gtagaaaata agataatctc 60
caaagtccag tagcattatt taaacatttt taaaaaatac actgataaaa attttgtaca 120
tttcccaaaa atacatatgg aagcacagca gcatgaatgc ctatgggrtt gaggataggg 180
gttgggagta gggatgggga taaaggggga aaataaaacc agagaggagt cttacacatt 240
tcatgaacca aggagtataa ttatttcaac tatttgtacc wgaagtccag aaagagtggg 300
ggcagaaggg ggagaagagg gcgaagaaac gtttttggga gaggggtccc asaagagaga 360
ttttcgcgat gtggcgctac atacgttttt ccaggatgcc ttaagctctg caccctattt 420
ttctcatcac taatattaga ttaaaccctt tgaagacagc gtctgtggtt tctctacttc 480
agctttccct ccgtgtcttg cacacagtag ctgttttaca agggttgaac tgactgaagt 540
gagattattc 550

```

<210> 236

<211> 325

<212> DNA

<213> Homo sapiens

<400> 236

```

tagactgact catgtcccct accagagtag ctagaattaa tagcacaagc ctctacaccc 60

```

```

aggaactcac tattgaatac ataaatggaa tttattcagc cttaaaaagt ttggaaggaa 120
attctgacat atgctaaaac atggatgaac cttgaagact ttatgataag taaaagaagc 180
cagtcataaa aggaaaaata ttgcatgatt ccacttatat gaggtaccta gagtagtcaa 240
tttcatagaa acacaaaata gaatggtggt tgccagggtc tttgaggaaa agggaatgac 300
aagttagggg acatgagtca gtcta 325

```

```

<210> 237
<211> 373
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 355
<223> n = A,T,C or G

```

```

<400> 237
tagactgact catgtcccct atctactcaa catttcact tgaagtctga taggcatctc 60
agacttatct tgtcccaaag caaactcttt atttcttttc atcctagtct ttatttcttg 120
tgctgtctta cccatctcaa aagagtgcc aatccaacca agttgctgaa acagaaatct 180
aagaaatct cttgattctt ctttttccca tctacttcac ttctaattca ttagtaaata 240
atctgtttca gaaaaccaa cacctcatgt tctactcat aagggggagt tgaacaatga 300
gaacacacag acacagggag gggaacatca cacaccacgg ccggtcaggg agtangggac 360
atgagtcagt cta 373

```

```

<210> 238
<211> 492
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 272, 310, 380, 435, 474, 484, 488
<223> n = A,T,C or G

```

```

<400> 238
tagactgact catgtcccct ataatgctcc caggcatcag aaagcatctc aaactggagc 60
tgacaccatg gcagagggtt caggtaagtc acaaaagggg tcctaaagaa tttgccctca 120
atatcagagt gattagaaga agtggacaga gctacccaag tttaacatat gcgagataaa 180
aaaaatatgg cacttgatgaa cacacactac aggaggaaaa taaggaacat aatagcatat 240
tgtgtctatta tgatgatgaa gaacctctct anaagaaaac ataaccaaag aaacaaagaa 300
aattcctgcn aatgtttaat gctatagaag aaattaacaa aaacatatat tcaatgaatt 360
cagaaaagtt agcagggtcan aagaaaacaa atcaaagacc agaataatcc cattttagat 420
tgtcgagtaa actanaacag aaagaatacc actggaaatt gaattcctac gtangggaca 480
tgantcantc ta 492

```

```

<210> 239
<211> 482
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 245

```

<223> n = A,T,C or G

<400> 239

```

tggaaagtat ttaatgatgg gcaacttgcg gtttacttcc tacatatccc atcatcttct 60
gtattttttt aaataacttt tttttggatt ttttaaagtaa ctttattctg agaggtaaca 120
tggattacat acttctaagc cattaggaga ctctatgtta aacccaaaagg aaatgttact 180
agatcttcat ttgatcaata ggatgtgata atcatcatct ttctgctcta atggaaaagt 240
actanaaaca tggaaaccata atcttagatg aacaacgtta gaatttgac taattctacg 300
gaatttcagt aattcggcaa atgtcgggca gtgacacaac atttcatgac ggggacgcat 360
ctaccaactt ctggcgataa gggccaccct tccctctgta cttacagtcc catttcatac 420
acagtctttg attaaatatt cacatTTTTT ctctacctaa agaccttcaa gaccagtacg 480
ta 482

```

<210> 240

<211> 519

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 491

<223> n = A,T,C or G

<400> 240

```

tgtatcgacg tagtggcttc cccatgtgat agtctgaaat atagcctcat gggatgagag 60
gctgtgcccc agcccgacac ccgtaaaggg tctgtgctga ggtggattag taaaagagga 120
aagccttgca gttgagatag aggaagggca ctgtctcctg cctgcccctg ggaactgaat 180
gtctcggtat aaaacccgat tgtacatttg ttcaattctg agataggaga aaaaccaccc 240
tatggcggga ggcgagacat gttggcagca atgctgcctt gttatgcttt actccacaga 300
tgtttgggcg gagggaaaca taaatctggc ctacgtgcac atccaggeat agtacctccc 360
tttgaactta attatgacac agattccttt gctcacatgt ttttttgctg accttctcct 420
tattatcacc ctgctctcct accgcattcc ttgtgctgag ataataaaaa taatatcaat 480
aaaaacttga nggaactcgg agaccactac gtcgatata 519

```

<210> 241

<211> 771

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 304, 402, 442, 463, 510, 541, 550, 567, 571, 596, 617, 624,
644, 648, 652, 667, 682, 686, 719, 722, 729, 732, 751, 752,
757, 758, 760, 763, 766, 769

<223> n = A,T,C or G

<400> 241

```

tgtatcgacg tagtggcttc cactcccgcc ttgacggggc tgctatctgc cttccaggcc 60
actgtcacgg ctcccgggta gaagtcactt atgagacaca ccagtgtggc cttgttggct 120
tgaagctcct cagaggaggg tgggaacaga gtgaccgagg gggcagcctt gggctgacct 180
aggacgggtca gcttggctcc tccgccaac acgagagtgc tgctgcttgc atatgagctg 240
cagtaataat cagcctcgct ctgagcctgg agcccagaga tggtcaggga ggccgtgttg 300
ccanacttgg agccagagaa gcgattagaa acccctgagg gccgattacc gacctcataa 360
atcatgaatt tgggggcttt gcctgggtgc tgttggtaacc angagacatt attataacca 420

```

```

ccaacgtcac tgetggttcc antgcaggga aaatggttga tonaactgtc caagaaaacc 480
actacgtcca taccaatcca ctaattgcn gccgcctgca ggttcaacca tattggggaa 540
naactcccn cccgctgttg ggattgncat naacctttga aattttttcc tattanttgt 600
ccccctaaaa taaacnnttg ggcnttaatc cattgggtcc atancntntt tncccggttt 660
ttaaaanttg tttatcccg cncnntttt ccccccaac tttccaaaac ccgaaacnt 720
tnaaattnt tnaaacctg gggggttccc nnaattnnan ttnaantnc c 771

```

```

<210> 242
<211> 167
<212> DNA
<213> Homo sapiens

```

```

<400> 242
tgggcacctt caatatcggg ctcatcgata acatcacgct gctgatgctg ctgttgctgg 60
tcctctctag gaacctctgg attttcaa attttgagga attcatccaa attatctgcc 120
tctcctcctt tcctcctttt tctaaggtct tctggtacaa gcggtca 167

```

```

<210> 243
<211> 338
<212> DNA
<213> Homo sapiens

```

```

<400> 243
ttgggcacct tcaatatcta ctgatctaaa tagtgtggtt tgaggcctct tgttcctggc 60
taaaaatcct tggcaagagt caatctccac tttacaatag aggtaaaaat cttacaatgg 120
atattcttga caaagctagc atagagacag caattttaca caaggtattt ttcacctgtt 180
taataacagt ggttttccta caccatagg gtgccaccaa gggaggagtg cacagttgca 240
gaaacaaatt aagatactga agacaacact acttaccatt tcccgtatag ctaaccacca 300
gttcaactgt acatgtatgt tcttatgggc aatcaaga 338

```

```

<210> 244
<211> 346
<212> DNA
<213> Homo sapiens

```

```

<400> 244
tttttggtc ccatacagca cactctcatg ggaaatgtct gttctaagg caaccataa 60
tgcaaaaatc atcaatatac ttgaagatcc ccgtgtaagg tacaatgtat ttaatatatt 120
cactgataca attgatccaa taccagtttt agtctggcat tgaatcaaat cactgttttt 180
gttgataaaa aagagaaata tttagcttat atttaagtac catattgtaa gaaaaaagat 240
gcttatcttt acatgctaaa atcatgatct gtacattggt gcagtgaata ttactgtaaa 300
agggaagaag gaatgaagac gagctaagga tattgaagg gcccaa 346

```

```

<210> 245
<211> 521
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 252, 337, 434, 455, 466, 478, 494, 510, 516
<223> n = A,T,C or G

```

```

<400> 245

```

```

accaatccca cacggatact gagggacaag tatatcatcc catttcatcc ctacagcagc 60
aacttcatga ggcaggaggt attagtccca ttttacagaa gaggaaactg agacttaggg 120
agatcaagta atttgccag gtcgcacaat tagtgataga gccagggtt gaagcgacgt 180
ctgtcttaag ccaatgaccc ctgcagatta ttagagcaac tgttctccac aacagtgtaa 240
gcctcttgct anaagctcag gtccacaagg gcagagattt ttgtctgttt tgctcattgc 300
tccttcccca ttgcttagag cagggtctgc cacgaancag gttctcaatg catagttatt 360
aaatgtatat aagagcaaac atatgttaca gagaactttc tgtatgcttg tcacttacat 420
gaatcacctg tganatgggt atgcttggtc cccantgttg cagatnaaga tattgaangt 480
gcccaaatca ctanttgcg ggcgctgcan gtccancata t 521

```

<210> 246

<211> 482

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 464

<223> n = A,T,C or G

<400> 246

```

tggaaccaat ccaaataccc atcaatgata gactggataa agaaaatttg gcacatgttc 60
accatgaaat actatgcagc cataaaaaag gatgagttca tatcctttgc agggacatgg 120
atgaagctgg agaccatcat tctcagcaaa ctaacaaggg aacagaaaac caaacactgc 180
atgttctcac tcttaagtgg gagctgaaca atgagaacac atggacacag ggaggggaac 240
atcacacagt ggggcctgct ggtgggtagg ggtctagggg agggatagca ttaggagaaa 300
tacctaattg agatgacggg ttgatgggtg cagcaaacca ccatgacacg tgtataccta 360
tgtaacaaac ctgcatgttc tgcacatgta cccagaact taaagtgtta ataaaaaaat 420
taagaaaaaa gttaagtatg tcatagatac ataaaatatt gtanatatgg aaggtgccca 480
aa 482

```

<210> 247

<211> 474

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 220, 255, 287, 312, 339, 374, 382, 403, 414, 426, 427, 428, 432, 433, 434, 435, 436, 465

<223> n = A,T,C or G

<400> 247

```

ttcgatacag gcacagagta agcagaaaaa tggctgtggt ttaaccaagt gagtacagtt 60
aagtgaagaga ggggcagaga agacaagggc atatgcaggg ggtgattata acagggtggt 120
gtgctgggaa gtgagggtac tcggggatga ggaacagtga aaaagtggca aaaagtggta 180
agatcagtga attgtacttc tccagaattt gatttctggn ggagtcaa atactatccag 240
tttggggtat catanggcaa cagttgaggt ataggaggta gaagtcncag tgggataatt 300
gaggttatga anggtttggt actgactggt actgacaang tctgggttat gaccatggga 360
atgaatgact gtanaagcgt anaggatgaa actattccac ganaaagggg tccnaaaact 420
aaaaannnaa gnnnnngggg aatattatatt atgtggatat tgaangtgcc caaa 474

```

<210> 248

<211> 355

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 69, 87, 186, 192, 220, 227, 251, 278, 339, 346, 350

<223> n = A,T,C or G

<400> 248

```

ttcgatacag gcaaacatga actgcaggag ggtggtgacg atcatgatgt tgccgatggt 60
ccggatggnc acgaagacgc actgganac gtgcttacgt ccttttgctc tgttgatggc 120
cctgagggga cgcaggaccc ttatgaccct cagaatcttc acaacgggag atggcactgg 180
attgantccc antgacacca gagacacccc aaccaccagn atatcantat attgatgtag 240
ttcctgtaga nggccccctt gtggaggaaa gctccatnag ttggtcatct tcaacaggat 300
ctcaacagtt tccgatggct gtgatgggca tagtcatant taacntgtn tcgaa 355

```

<210> 249

<211> 434

<212> DNA

<213> Homo sapiens

<400> 249

```

ttggattggt cctccaggag aacaagggga aaaagggtgac cgaggggctcc ctggaactca 60
aggatctcca ggagcaaaag gggatggggg aattcctggt cctgctgggc ccttaggtcc 120
acctggtcct ccaggcttac caggtcctca aggcccaaag ggtaacaaag gctctactgg 180
acccgctggc cagaaagggt acagtgggtc tccagggcct cctgggcctc caggtccacc 240
tggtgaagtc attcagcctt taccaatctt gtccctccaaa aaaacgagaa gacatactga 300
aggcatgcaa gcagatgcag atgataatat tcttgattac tcggatggaa tggaagaaat 360
atttggttcc ctcaattccc tgaacaaga catcgagcat atgaaatttc caatgggtac 420
tcagaccaat ccaa 434

```

<210> 250

<211> 430

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 301, 430

<223> n = A,T,C or G

<400> 250

```

tggattggtc acatggcaga gacaggattc caaggcagtg agaggaggat acaatgcttc 60
tcactagtta ttattattta ttttattttt gagatgaagt ctgcctttgt ctcccaggct 120
ggagagcggg ggtgcgatct tggctctctg caacccccgc ctcaagcaat tctcctgtct 180
tagcctcgcg ggtagatgga attacaggcg cccaccgccca tgcccaacta atttttttgt 240
gtcttcagta gagacagggt ttgcctatgt tgggcaggct ggtcttgaac tcttgacctc 300
nagtgatctg cctcctcctg cctcacaagg tgctggaatt acaggcatgg gctgctgcac 360
ccagtcaact tctcactagt tatggcctta tcattttcac cacattctat tggcccaaaa 420
aaaaaaaaan 430

```

<210> 251

<211> 329

<212> DNA

<213> Homo sapiens

<400> 251

```

tggtactcca ccatyatggg gtcaaccgcc atcctcgccc tctcctggc tgttctccaa 60
ggagtctgtg ccgaggtgca gctgrtgcag tctggagcag aggtgaaaaa gtccggggag 120
tctctgaaga tctcctgtaa gggttctgga tacaccttta agatctactg gatcgccctg 180
gtgcgccagt tgcccgggaa aggcctggag tggatggggc tcatctttcc tgatgactct 240
gataccagat acagcccgtc cttccaaggc caggtcacca tctcagtcga taagtccatc 300
agcaccgcct atctgcagtg gagtaccaa 329

```

<210> 252

<211> 536

<212> DNA

<213> Homo sapiens

<400> 252

```

tggtactcca ctcagcccaa ccttaattaa gaattaagag ggaacctatt actattctcc 60
caggctcctc tgcctaaacc aggcctctgg gacagtatta gaaaaggatg tctcaacaag 120
tatgtagatc ctgtactggc ctaagaagtt aaactgagaa tagcataaat cagaccaaac 180
ttaatgggtc ttgagacttg tgcctgggag cagctgggat aggaaaactt ttgggcagca 240
agaggaagaa ctgcctggaa gggggcatca tgttaaaaaa tacaagggga acccacacca 300
ggcccccttc ccagctctca gcctagagta ttagcatttc tcagctagag actcacaact 360
tccttgctta gaatgtgcca ccggggggag tccctgtggg tgatgaggct ctcaagagtg 420
agagtggcat cctatcttct gtgtgccac aggagcctgg cccgagactt agcaggtgaa 480
gtttctggtc caggctttgc ccttgactca ctatgtgacc tctggtggag taccaa 536

```

<210> 253

<211> 507

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 1

<223> n = A,T,C or G

<400> 253

```

ntgttgcat cccagtaact cgggaagctg aggcgggagg atcacctgag ctcaggaggt 60
tgaggccgca gtgagccggg accacgccac tacactccag cctggggcat agagtgagac 120
cctccaagac agaaaagaaa agaaaggaag ggaaagggaa agggaaaagg aaaaggaaaa 180
ggaaaaggaa aaggaaaaga caagacaaaa caagacttga atttggatct cctgacttca 240
atthttatgtt ctttctacac cacaattcct ctgcttacta agatgataat ttagaaaccc 300
ctcgttccat tctttacagc aagctggaag ttgtgtcaag taattacaat aatagtaaca 360
aatttgaata ttatatgcca ggtgttttct attcctgctc tcacttaatt ctcaccactc 420
tgatataaat acaattgctg ccgggtgtgg tggctcatgc ctgtaatccc ggcactttgg 480
gagaccgagg tgggcgggats gcaacaa 507

```

<210> 254

<211> 222

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 167

<223> n = A,T,C or G

<400> 254

```
ttggattggt cactgtgagg aagccaaatc ggatccgaga gtctttttct aaaggccagt 60
actggccaca ctttctcctg ccgccttcct caaagctgaa gacacacaga gcaaggcgct 120
tctgttttac tccccaatgg taactccaaa ccatagatgg ttagctnccc tgctcatctt 180
tccacatccc tgctattcag tatagtccgt ggaccaatcc aa 222
```

<210> 255

<211> 463

<212> DNA

<213> Homo sapiens

<400> 255

```
tgttgcgac cataaatgct gaaatggaaa taaacaacat gatgagggag gattaagttg 60
gggagggagc acattaaggt ggccatgaag tttgttggaa gaagtgactt ttgaacaagg 120
ccttgggtgtt aagagctgat gagagtgtcc cagacagagg ggccactggg acaatagacg 180
agatgggaga gggccttggaa ggtgtgcaa atagggaagg gtttgttctg gtatgagtct 240
agtgaacaca gaggcgagag gccctgggtg gtgcagctgg agagtatatc agaataacat 300
taggccctgt gggggactgt agactgtcag caataatcca cagtttggat tttattctaa 360
gagtgatggg aagccgtgga aaggggggta agcaaggagt gaaattatca gatttacagt 420
gataaaaata aattgggtctg gctactgggg aaaaaaaaaa aaa 463
```

<210> 256

<211> 262

<212> DNA

<213> Homo sapiens

<400> 256

```
ttggattggt caacctgctc aactctacyt ttcctccttc ttcttaaaaa attaatgaat 60
ccaatacatt aatgccaaaa cccttgggtt ttatcaatat ttctgttaaa aagtattatc 120
cagaactgga cataatacta cataataata cataacaacc ccttcatctg gatgcaaaca 180
tctattaata tagcttaaga tcactttcac tttacagaag caacatcctg ttgatgttat 240
tttgatgttt ggaccaatcc aa 262
```

<210> 257

<211> 461

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 2, 5, 6, 7, 8, 9, 10, 11, 12, 13, 25, 32, 38, 71, 72

<223> n = A,T,C or G

<400> 257

```
gnngnnnnnn nnncaattcg actcngttcc cntgggtancc ggtcgacatg gccgcgggat 60
taccgcttgt nncgtgggggt gtatggggga ctatgaccgc ttgtagctgg ggggtgatgg 120
gggactatga ccgctttag tagtgkggtgt atgggggact atgaccgctt gtcgggtggt 180
cggataaacc gacgcaagg acgtgatcga agctgcgttc ccgctctttc gcacggtag 240
ggatcatgga gacgaatcgc cgcatcgcyc tgaaggcggt cgaccatcgc gtgctcgatc 300
aggcgaccgg cgacatcgcc gacaccgcac gccgtaccgg cgcgctcatc cgcgggtccga 360
tcccgcttcc cacgcgcac gagaaagtca cggccaaccg tggccccgac gtcgacaaga 420
```


agtgcgcgca gcagttcgag gtgcgtacct acaagcggtc a

461

<210> 258

<211> 332

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 251

<223> n = A,T,C or G

<400> 258

```
tgaccgcttg tagctggggg tgtatggggg actacgaccg cttgtagctg ggggtgtatg 60
ggggactatg accgcttgta gctgggggtg tatgggggac tatgaccgct ttagctggg 120
ggtgtatggg ggactaggac cgcttgtagc tgggggtgta tgggggacta tgaccgcttg 180
tagctggggg tgtatggggg actacgaccg cttgtagctg ggggtgtatg ggggactatg 240
accgcttgta nctgggggtg tatgggggac tatgaccgct tgtgctgcct ggggatggg 300
aggagagttg tggttgggga aaaaaaaaaa aa 332
```

<210> 259

<211> 291

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 141, 144, 167, 168, 171, 175, 194, 201, 202, 205, 209, 212, 235, 236, 245, 246, 258, 266, 268, 270, 273, 277, 285, 290

<223> n = A,T,C or G

<400> 259

```
taccgcttgt gaccgcttgt gaccgcttgt gaccgcttgt gaccgcttgt gaccgcttgt 60
gaccgcttgt gaccgcttgt gaccgcttgt gaccgcttgt gaccgcttgt gaccgcttgt 120
gaccgcttgt gaccgcttgt nacnggggtg gtctggggga ctatgannga ntgtactgg 180
gggtgtctgg gggncatga nngantgtna cnggggggtg ctgggggact atganngact 240
gtgcnnctg ggggatcnga ggagantngn ggntagnat ggttngggan a 291
```

<210> 260

<211> 238

<212> DNA

<213> Homo sapiens

<400> 260

```
taagagggtg ctggttaaaa tacaggaaat ctggggtaat gaggcagaga accaggatac 60
tttgagggtg gggatgaaaa ctagaatttt tttctttttt tttgcctgag aaacttgctg 120
ctctgaagag gccatgtat taattgcttt gatcttcott ttcttacagc cctttcaagg 180
gcagagccct ccttatcctg aaggaatctt atccttagct atagtatgta ccctctta 238
```

<210> 261

<211> 746

<212> DNA

<213> Homo sapiens

<220>
 <221> misc_feature
 <222> 662, 680, 685, 698, 707, 709, 734, 740, 741
 <223> n = A,T,C or G

<400> 261
 ttgggcacct tcaatatcaa tagctaacat ttattgagtg tttatcgtat cataaaacac 60
 tggttctaagc ctttaaagct actaattcat ttaatgctca taatcacttt agaaggtggg 120
 tactagtatt agtctcattt acagatgcaa catgcaggca cagagagggt aattaacttg 180
 cccaaggtaa cacagctaag aaatagaaaa aatattgaat ctggaaagtt gggcttctgg 240
 gtaaccacaca gagtcttcaa tgagcctggg gcctcactca gtttgccttt acaaagcgaa 300
 tgagtaacat cacttaattc agtgagtagg ccaaaggag gtcagctacg agtttctgct 360
 gttcttgtag tggaactgaca gatgtttaca acgtctggcc atcagtwaat ggactgatta 420
 tcattgggaw gtgggtgggc tgaatgttgg ccagtgaagt ttattcawgc catattttta 480
 tgtttaggat gacttttggc tggctcctagg gcaagctctg tctgscacgg aacacagaat 540
 wacacaggga cccctcaat ttctggtgtg gctagaacca tgaaccactg gttgggggaa 600
 caagcgggtca aaacctaagt gcggccggct ggcagggtcc acccatatgg ggaaaactcc 660
 cnacgcgttt ggaatgcctn agctngaatt attctaanag ttgtccnct aaaattagcc 720
 tgggcgttaa tcangggctn naagcc 746

<210> 262
 <211> 588
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 485, 488, 489, 492, 493, 494, 496, 497, 498, 499, 502, 503,
 504, 506, 521, 537, 550, 564
 <223> n = A,T,C or G

<400> 262
 tgaccgcttg tcatctcaca tggggctcctg cacgcttttg cctttgtagg aaacctgaca 60
 tttgtctgtt tcttctttct cttttccttc ccatactctc ctaatttacg tttgacttgt 120
 ttgctgagga ggcaggagct agagactgct gtgagctcat aggggtggga agtttatcct 180
 tcaagtcctg cccactcatc actgcttctc accttccct gaccaggctt acaagtgggt 240
 tcttgctgc tttccctttg gacccaacaa gccctgttaa tgagtgtgca tgactctgac 300
 agctgtggac tcagggtcct tggctacagc tgccatgtaa aatatctcat ccagttctcg 360
 caaattgtta aaataaccac atttcttaga ttccagtacc caaatcatgt ctttacgaac 420
 tgctcctcac acccagaagt ggcacaataa ttcttgggga attattactt tttttttct 480
 ctctnttnc gnnngnnnng gnnngnccag gaattaccac nttggaagac ctggccngaa 540
 tttattatan aggggagccg attntttttc ctaacacaaa gcgggtca 588

<210> 263
 <211> 730
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 124, 510, 534, 559, 604, 605, 635, 711, 729
 <223> n = A,T,C or G

<400> 263

```

tttttttttt tttggcctga gcaactgaaa ttatgaaatt tccatatact caaaagagta 60
agactgcaaa aagatttaaat gtaaaagttg tcttgtatac agtaatgttt aagataccta 120
ttanatttat aaatggaaaa ttagggcatt tggatataca agttgaaaat tcaggagtga 180
ggttgggctg gctgggtata tactgaaaac tgtcagtaca cagatgacat ctaaaaccac 240
aaatctgggt ttatttttagc agtgatatgt gtcactccca caaaagcctt cccaattggc 300
ctcagcatac acaacaagtc acctccccac agccctctac acataaaca attccttagt 360
ttagttcagg aggaaatgcg cccttttctt tccgctctag gtgaccgcaa ggcccagttc 420
tcgtcaccaa gatgttaagg gaagtctgcc aaagaggcat ctgaaaggaa ataaggggaa 480
tgggagtgc cacaaggaa agccaaggan aaactttgga gaccgtttct aganccctgg 540
catttcacaa caaaactcng gaacaaacct tgtctcatca atcatttaag cccttcgttt 600
ggannagact ttctgaactg ggcgctgaac ataancctca ttgaatgtct tcacagtctc 660
ccagctgaag gcacaccttg ggccagaagg ggaatcttcc aggtcctcaa nacagggctc 720
gccctttgnc 730

```

<210> 264

<211> 715

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 364, 451, 476, 494, 495, 515, 519, 524, 633, 635, 636, 645, 647, 649, 657, 692, 695, 701, 707, 710, 713

<223> n = A,T,C or G

<400> 264

```

tttttttttt tttggccagt atgatagtct ctaccactat attgaagctc ttaggtcatt 60
tacacttaat gtggttatag atgctgttga gcttacttct accaccttgc tatttctccc 120
gtctcttttt tgttcctttt ctcttctttt cctcccttat tttataattg aatttttttag 180
gattctatatt tatatagatt tatcagctat aacactttgt attcttttgt tttgtggttc 240
ttctgtcatt tcaatgtgca tcttaaactc atcacaatct atttttcaaat aatatcatat 300
aaccttacat ataatgtaag aatctaccac catatatctt catttctccc ttccatccta 360
tgtntgtcat attttttcct ttatatatgt tttaaagaca taatagtata tgggaggttt 420
ttgcttaaaa tgtgatcaat attccttcaa ngaaacgtaa aaattcaaaa taaatntctg 480
tttattctca aatnnaccta atatttccta ccatntctna tacntttcaa gaatctgaag 540
gcattggttt tttccggctt aagaacctcc tctaaagcac tctaagcaga attaatgtct 600
ctgggagagg aattctccca agcttgggcc ttнантgta ctcontnang gttaaanttt 660
ggccgggaaa tagaaattcc aagttaacag gntanttttt nttttnttn tcncc 715

```

<210> 265

<211> 152

<212> DNA

<213> Homo sapiens

<400> 265

```

tttttttttt tttcccaaca caaagcacca ttatctttcc tcacaatttt caacatagtt 60
tgattcccat gaagaggtta tgatttctaa agaaaacatg gctactatac tatcaatcag 120
ggttaaattct tttttttttg agacggagtt ta 152

```

<210> 266

<211> 193

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 180

<223> n = A,T,C or G

<400> 266

```
taaactccgt ccccttctta atcaatatgg aggctaccca ctccacatta ccttcttttc 60
aagggactgt ttccgtaact gtgtgggta ttacgacca ggcttctaaa cctcttaaaa 120
ctccccaatt ctggtgccaa cttggacaac atgctttttt tttttttttt tttttttttt 180
gagacggagt tta                                     193
```

<210> 267

<211> 460

<212> DNA

<213> Homo sapiens

<400> 267

```
tgttgcgatc ccttaagcat gggtgctatt aaaaaaatgg tggagaagaa aatacctgga 60
atttacgtct tatctttaga gattgggaag accctgatgg aggacgtgga gaacagcttc 120
ttcttgaatg tcaattccca agtaacaaca gtgtgtcagg cacttgctaa ggatcctaaa 180
ttgcagcaag gctacaatgc tatgggattc tcccaggagg gccaatctct gagggcagtg 240
gctcagagat gcccttcacc tcccatgac aatctgatct cggttggggg acaacatcaa 300
gggtgttttg gactccctcg atgccagga gagagctctc acatctgtga cttcatccga 360
aaaacactga atgtctggggc gtactccaaa gttgttcagg aacgcctcgt gcaagccgaa 420
tactggcatg acccataaaa ggaggatgtg gatcgcaaca 460
```

<210> 268

<211> 533

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 450, 470

<223> n = A,T,C or G

<400> 268

```
tgttgcgatc cgttgataga atagcgacgt ggtaatgagt gcatggcacg cctccgactt 60
accttcgccc gtggggaccc cgagtacgtc tacggcgctg tcaattagag taccctctgg 120
acgcccgggc gcgttcgatt taccggaagc gcgagctgca gtgggcttgc gccccgggcc 180
aaattctttg gggggtttaa ggccgcgggg aatttgaggt atctctatca gtatgtagcc 240
aagttggaac agtcgccatt cccgaaatcg ctttctttga atccgcaccg cctccagcat 300
tgccctcattc atcaacctga aggcacgcat aagtgaacgt tgtgtcttca gcagctccac 360
tccataacta gcgcgctcga cctcgtcttc gtacgcgcca ggtccgtgag tgcgaattcc 420
caactccggt gagttgcgca tttcaagttt cgaaaactgtt cgccctccacn atttggcatg 480
ttcacgcatg acacggaata aactcgtcca gtaccgggaa tgggatcgca aca 533
```

<210> 269

<211> 50

<212> DNA

<213> Homo sapiens

<400> 269

```
tttttttttt ttgcgctgaa ttagctacag atcctcctca caagcggta 50
```

<210> 270
 <211> 519
 <212> DNA
 <213> Homo sapiens

<400> 270
 tgttgcgac caaataaccc accagcttct tgcacacttc gcagaagcca ccgtcctttg 60
 gctgagtcac gtgaacggc agtgcaagca gccgcgtgcc agagcagagg tgcagcatgc 120
 tgcacaccag ctccagggtg acctcctcca gcaggatgga caggatggag ctgccgtacg 180
 tgtccaccac ctctggcac tcttccgaca gggacttcgg cagcttcgag cacattttgt 240
 caaaagcgtc gagtatttct ttctcagtct tgttgttgtc aatcagcttg gtcacctcct 300
 tcaccaggaa ttcacacacc tcacagtaaa catcagactt tgctgggacc tcgtgcttct 360
 taatgggctc caccagttcc agggcaggga tgacattctt ggaggccact ttggcgggga 420
 ccagagctcg catgggcatc tctttcacct catcacagaa cccaaccagc gcacagatct 480
 ccttggttg catgtgcac atcatctggg atcgcaaca 519

<210> 271
 <211> 457
 <212> DNA
 <213> Homo sapiens

<400> 271
 tttttttttt ttccggcgcc gaccggacgt gcaactctcc agtagcggct gcacgtcgtg 60
 ccaatggccc gctatgagga ggtgagcgtg tccggcttcg aggagttcca ccgggccgtg 120
 gaacagcaca atggcaagac cattttccgc tactttacgg gttctaagga cgccgggggg 180
 aaaagctggt gccccgactg cgtgcaggct gaaccagtcg tacgagaggg gctgaagcac 240
 attagtgaag gatgtgtgtt catctactgc caagtaggag aagagcctta ttggaaagat 300
 ccaaataatg acttcagaaa aaacttgaaa gtaacagcag tgccctacact acttaagtat 360
 ggaacacctc aaaaactggt agaattctgag tgtcttcagg ccaacctggt ggaaatgttg 420
 ttctctgaag attaagattt taggatggca atcaaga 457

<210> 272
 <211> 102
 <212> DNA
 <213> Homo sapiens

<400> 272
 tttttttttt ttgggcaaca acctgaatac cttttcaagg ctctggcttg ggctcaagcc 60
 cgcaggggaa atgcaactgg ccaggtcaca gggcaatcaa ga 102

<210> 273
 <211> 455
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 380, 415, 454
 <223> n = A,T,C or G

<400> 273
 tttttttttt ttggcaatca acaggtttaa gtcttcggcc gaagttaatc tcgtgttttt 60
 ggcaatcaac aggtttaagt cttcggccga agttaatctc gtgttttttg caatcaacag 120

```

gtttaagtct tcggccgaag ttaatctcgt gtttttggca atcaacaggt ttaagtcttc 180
ggccgaagtt aatctcgtgt ttttggcaat caacaggttt aagtcttcgg ccgaagttaa 240
tctcgtgttt ttggcaatca acagggttaa gtcttcggcc gaagttaatc tcgtgttttt 300
ggcaatcaag aggtttaagt ctccggccga agttaatctc gtgttttttg caatcaacag 360
gtttaagtct tcggccgaan ttaatctcgt gtttttggca atcaacaggt ttaantcttc 420
ggccgaagtt aatctcgtgt ttttggcaat caana 455

```

```

<210> 274
<211> 461
<212> DNA
<213> Homo sapiens

```

```

<400> 274
tttttttttt ttggccaata cccttgatga acatcaatgt gaaaatcctc ggtaaaatac 60
tggcaaacca aatccagcag cacatcaaaa agcttatcca ccatgatcaa gtgggcttca 120
tccttgggat gcaaggctgg ttcaacataa gaaaatcaat aaatgtaatc catcacataa 180
acagaaccaa agacaaaaac cacatgatta tctcaataga tgcagaaaag gccttggaca 240
aattcaacag cccttcatgc taaacactct taataaacta gatattgatg gaatgtatct 300
caaaataata agagctatct atgacaaacc cacagccaat atcatactga atgggcaaag 360
actggaagca ttccctttga aaactggcac aagacaagga tgccctctct caccgctcct 420
attcaacata gtattggaag ttctggccag ggcaatcaag a 461

```

```

<210> 275
<211> 729
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 164, 193, 207, 215, 216, 220, 223, 241, 244, 254, 269, 271,
275, 290, 295, 298, 309, 318, 325, 326, 331, 352, 380, 401,
411, 420, 424, 426, 431, 433, 435, 438, 440, 442, 443, 448,
453, 464, 465, 468, 474, 475, 481, 487, 491, 503, 516
<223> n = A,T,C or G

```

```

<221> misc_feature
<222> 519, 530, 531, 542, 547, 549, 559, 561, 564, 582, 586, 587,
588, 589, 592, 595, 612, 614, 620, 631, 632, 635, 636, 644,
646, 649, 650, 651, 655, 657, 660, 661, 662, 663, 666, 672,
673, 674, 682, 687, 691, 693, 697, 700, 701, 704, 705
<223> n = A,T,C or G

```

```

<221> misc_feature
<222> 713, 715, 717, 718, 722, 726, 727
<223> n = A,T,C or G

```

```

<400> 275
tttttttttt ttggccaaca ccaagtcttc cacgtgggag gttttattat gttttacaac 60
catgaaaaca taggaaggtg gctgttacag caaacatttc agatagacga atcggccaag 120
ctccccaac ccaccttca cagcctcttc cacacgtctc ccanagattg ttgtccttca 180
cttgcaaatt canggatgtt ggaagtngac atttnnagtn gcnggaaccc catcagtga 240
ncantaagca gaantacgat gactttgana nacanctgat gaagaacacn ctacnganaa 300
ccctttctnt cgtgttanga tctcnngtcc ntcactaatg cgccccctg cnggtccacc 360
atttgggaga actccccc ngttggatcc ccccttgagt ntccattct ngcccccan 420

```

```

accngncttg ngngncantn cnnccctcnca ccntgtttcc ctgnngtnaa aatnngtttt 480
nccgcncccc naattcccac ccnaatcaca gcgaancng aaggcccttcn naagtgttta 540
angcccnngng gtttccctcnt ntanttgag cctaccctcc cncctnnnnt tncgngttgg 600
tcgcgccttg gncncgcctn gttcctcttt nnggnnaciaa cctngntcnn nggcncntcn 660
nnctntttcc tnnnactagc tngcctntcc ncnccgnggn ncanngcaca ttncncnnac 720
tntgtnncc 729

```

```

<210> 276
<211> 339
<212> DNA
<213> Homo sapiens

```

```

<400> 276
tgacctgaca ttagtagat acttaataaa tatttgtgga atgaatggat gaagtggagt 60
tacagagaaa aatagaaaag tacaaattgt tgtcagtgtt ttgaaggaaa attatgatct 120
ttcccaaagt tctgacttca ttctaagaca gggtagtat ctccatacat aattttactt 180
gcttttgaaa atcaaagag ataactctatt tagattgata atttatttag actggctata 240
aactattaag tgctagcaaa tatacatctt aatctcattt tccacctctt gtgatatagc 300
tatgtagggt ttgactttaa tggatgtcag gtcaatccc 339

```

```

<210> 277
<211> 664
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 267, 534, 590, 601, 646, 657
<223> n = A,T,C or G

```

```

<400> 277
tgacctgaca tccataacaa aatctttctc cattatatctc ttctagggga atttcttgaa 60
aagcatccaa aggaaacaaa tgatggtaag accgtgccaa gtggggagca gacaccaaag 120
taagaccaca gattttacat tcaacaggta gctcacagta ctttgcccga cactgtgggc 180
agaaatagcc tcctaagtga agccctggct cagtattgcc atccaaatgc gccatgctga 240
aagagggttt tgcctcctgg tcagatnaag aagcaatggg gtgctgagga aatcccatc 300
gaataagtga gcattcagaa cttgagctag caggaggagg actaagatga tgtgtgagca 360
actctttgta atggctttca tctaaaataa catggtacgt gccaccagtt tcacgagcaa 420
gtacagtgca aacgcgaact tctgcagaca atccaataac agatactcta attttagctg 480
cctttagggt cttgattaaa tcataaatat tagatggatc gcaagttgta aggntgctaa 540
aagatgatta gtacttctcg acttgatgt ccaggcatgt tgttttaaan tctgccttag 600
nccctgctta ggggaatttt taaagaagat ggctctccat gttcanggtc aatcacnaat 660
tgcc 664

```

```

<210> 278
<211> 452
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 430
<223> n = A,T,C or G

```

<400> 278

```

tgacctgaca ttgaggaaga gcacacacct ctgaaattcc ttaggttcag aagggcattt 60
gacacagagt gggcctctga taattcatga aatgcattct gaagtcaccc agaattggagg 120
ctgcaatctg ctgtgctttg ggggttgctt cactgtgctc ctggatatca cacaaaagct 180
gcaatccttc ttcttcaact aacattttgc agtatttgct gggattttta ctgcagacat 240
gatacatagc ccatagtgcc cagagctgaa cctctgggtg agagaagttg ccaaggagcg 300
ggaaaaatgt cttgaaagat ctatagggtca ccaatgctgt catcttataa cttgaacttg 360
gccaatctct tatggttgca tgcagatctt ggagaagagt acgcctctgg aagtcacggg 420
atatccaan ctgtctgtca gatgtcaggt ca 452

```

<210> 279

<211> 274

<212> DNA

<213> Homo sapiens

<400> 279

```

tttttttttt ttcggcaagg caaatttact tctgcaaaag ggtgctgctt gcacttttgg 60
ccactgcgag agcacaccaa acaaagtagg gaaggggttt ttatccctaa cgcgggttatt 120
ccctggttct gtgtcgtgtc cccattggct ggagtcagac tgcacaatct acactgaccc 180
aactggctac tgtttaaaat tgaatatgaa taattaggta ggaaggggga ggctgtttgt 240
tacggtacaa gacgtgtttg ggcattgtcag gtca 274

```

<210> 280

<211> 272

<212> DNA

<213> Homo sapiens

<400> 280

```

tacctgacat ggagaaataa cttgtagtat tttgcgtgca atggaatact atatgagggg 60
gaaaatgaat gaactagcaa tgcgtgtatc aacatgaata aatcccaaaa acataataat 120
gttgaatgga aaaggtgagt ttcagaagga tatatatgcc ctctaaatcc atttatgtaa 180
acctttaaaa aactacatta tttatgggtc taagtccatc cagaaaatat ttaaaaacct 240
acatgggatt gataactact gatgtcaggt ca 272

```

<210> 281

<211> 431

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 339, 420, 430, 431

<223> n = A,T,C or G

<400> 281

```

tttttttttt ttggccaata gcatgattta aacattggaa aaagtcaaat gagcaatggg 60
aatttttatg ttctcttgaa taatcaaaag agtaggcaac attggttcct cattcttgaa 120
tagcattaat cagaaaatat tgcatagcct ctagcctcct tagagtaggt gtgctctctc 180
aaatatatca tagtcccaca gtttatttca tgtatatatt ctgcctgaat cacatagaca 240
tttgaatttg caacgcctga tgtaaatata taaattccta ccaatcagaa acatagcaag 300
aaattcaggg acttgggtcat yatcagggtg tgacagcana tccctgtara aacactgata 360
cacactcaca cacgtatgca acgtggagat gtcgcyttww kkktywccwm rmrycrwogn 420
aatcacttan n 431

```


<210> 282
 <211> 98
 <212> DNA
 <213> Homo sapiens

<400> 282
 attcgattcg atgcttgagc ccaggagttc aagactgcag tgagccactg cacttcaggg 60
 tggacaacag agcgagtccc tgtgccaaaa aaaaaaaaa 98

<210> 283
 <211> 764
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 372, 374, 379, 380, 381, 382, 384, 387, 389, 392, 402, 409,
 411, 419, 421, 432, 440, 447, 452, 457, 466, 470, 471, 480,
 483, 492, 503, 506, 510, 512, 518, 520, 521, 524, 531, 534,
 536, 542, 545, 547, 550, 552, 553, 562, 566, 567, 575
 <223> n = A,T,C or G

<221> misc_feature
 <222> 580, 581, 584, 586, 587, 595, 598, 601, 603, 604, 606, 624,
 629, 630, 646, 651, 652, 653, 656, 659, 664, 665, 681, 691,
 700, 706, 709, 721, 724, 731, 732, 737, 741, 744, 745, 750,
 753, 754, 758
 <223> n = A,T,C or G

<400> 283
 tttttttttt ttcgcaagca cgtgcacttt attgaatgac actgtagaca ggtgtgtggg 60
 tataaactgc tgtatctagg ggcaggacca agggggcagg ggcaacagcc ccagcgtgca 120
 gggccascac tgcacagtgg astgcaaagg ttgcaggcta tgggcggcta ctavtaaccc 180
 cgtttttctt gtattatctg taacataata tggtagactg tcacagagcc gaatwccart 240
 hacasatga atccaawggt caygaggatg ccacasaatca gggcccasat sttcaggcac 300
 ttggcggtgg gggcatasgc ctgkgccccg gtcacgtcsc caaccwtcty cctgtcccta 360
 cmcttgawtc cncncctttn nntnccntna tntgcccgcc cncctcctng ngteaaccng 420
 natctgcaat anctccctcn ccccttntgg antctcttcc ttcaantaan nttatccttn 480
 acnccccctt cncctttccc ctncncccn tnatcccngn nccnctatca ntctnccct 540
 cncntnctn cnnatcggtc cncctnntaa ctacncttn nacnannct cactnatncc 600
 ngnnantttt ttccttccct ccnncgcnn tgcgtgcgcc cgtctngcct nnnctnecna 660
 ccnnactttt atttaccttt ncaccctagc nctctacttn acccancnc tectacctec 720
 nggnccaccc nncctnatc nctnctctn tcnctctntt cccc 764

<210> 284
 <211> 157
 <212> DNA
 <213> Homo sapiens

<400> 284
 caagtgtagg cacagtgatg aaagcctgga gcaaacacaa tctgtgggta attaacgttt 60
 atttctcccc ttccaggaac gtcttgcatg gatgatcaaa gatcagctcc tggtaacat 120
 aaataagcta gtttaagata cgttcccccta cacttga 157

<210> 285
 <211> 150
 <212> DNA
 <213> Homo sapiens

<400> 285
 attcgattgt actcagacaa caatatgcta agtggagaa gtcagtcaca aaagaccaca 60
 tactgtatga cttcatttac attaagtgtc cagaataggc aaatccgtag agacagaaag 120
 tagatgagca gctgcctagg tctgagtaca 150

<210> 286
 <211> 219
 <212> DNA
 <213> Homo sapiens

<400> 286
 attcgatttt tttttttttg gccatgatga aattcttact ccctcagatt ttttgtctgg 60
 ataaatgcaa gtctcaccac cagatgtgaa attacagtaa actttgaagg aatctcctga 120
 gcaaccttgg ttaggatcaa tccaatattc accatctggg aagtcaggat ggctgagttg 180
 caggtcttta caagttcggg ctggattggg ctgagtaca 219

<210> 287
 <211> 196
 <212> DNA
 <213> Homo sapiens

<400> 287
 attcgattct tgaggctacc aggagctagg agaagaggca tggaacaaat tttccctcat 60
 atccatactc agaaggaacc aacctgtctg acaccttaat ttcagcttct ggcctctaga 120
 actgtgagag agtacatttc tcttggttta agccaagaga atctgtcttt tgggtacttta 180
 tatcatagcc tcaaga 196

<210> 288
 <211> 199
 <212> DNA
 <213> Homo sapiens

<400> 288
 attcgatttc agtccagtcc cagaaccac attgtcaatt actactctgt araagattca 60
 tttgttgaaa ttcattgagt aaaacattta tgatccctta atatatgcc attaccatgc 120
 taggtactga agattcaagt gaccgagatg ctagcccttg ggttcaagt atccctctcc 180
 cagagtgcac tggactgaa 199

<210> 289
 <211> 182
 <212> DNA
 <213> Homo sapiens

<400> 289
 attcgattct tgaggctaca aacctgtaca gtatgttact ctactgaata ctgtaggcaa 60
 tagtaataca gaagcaagta tctgtatatg taaacattaa aaaggtacag tgaaacttca 120
 gtattataat ctaggggacc accattatat atgtggtcca tcattggcca aaaaaaaaaa 180
 aa 182

<210> 290
 <211> 1646
 <212> DNA
 <213> Homo sapiens

<400> 290
 ggcacgagga gaaatgtaat tccatatttt atttgaaact tattccatat ttttaattgga 60
 tattgagtga ttgggttatc aaacaccac aaactttaat tttgttaa atatatggct 120
 ttgaaataga agtataagtt gctaccattt tttgataaca ttgaaagata gtattttacc 180
 atctttaatc atcttgaaa atacaagtcc tgtgaacaac cactctttca cctagcagca 240
 tgaggccaaa agtaaaggct ttaaattata acatatggga ttcttagtag tatgtttttt 300
 tcttgaaact cagtggctct atctaaccct actatctcct cactctttct ctaagactaa 360
 actctaggct cttaaaaatc tgcccacacc aatcttagaa gctctgaaa gaatttgtct 420
 ttaaatatct tttaatagta acatgtattt tatggacca attgacattt tcgactattt 480
 tttccaaaa agtcaggtga atttcagcac actgagttgg gaatttctta tcccagaaga 540
 ccaaccaatt tcatatttat ttaagattga ttccatactc cgttttcaag gagaatccct 600
 gcagtctcct taaaggtaga acaataactt tctatttttt tttcaccatt gtgggattgg 660
 actttaagag gtgactctaa aaaaacagag aacaaatatg tctcagttgt attaagcacg 720
 gacccatatt atcatattca cttaaaaaaa tgattttctg tgcaaccttt ggcaacttct 780
 cttttcaatg tagggaaaaa cttagtcacc ctgaaaaccc acaaaataaa taaaacttgt 840
 agatgtgggc agaaggtttg ggggtggaca ttgtatgtgt ttaaattaaa cctgtatca 900
 ctgagaagct gttgtatggg tcagagaaaa tgaatgotta gaagctgttc acatcttcaa 960
 gagcagaagc aaaccacatg tctcagctat attattattt attttttatg cataaagtga 1020
 atcatttctt ctgtattaat ttccaaaggg ttttaccctc tatttaaattg ctttgaaaaa 1080
 cagtgcattg acaatgggtt gatatttttc tttaaaagaa aaatataatt atgaaagcca 1140
 agataatctg aagcctgttt tattttaaaa ctttttatgt tctgtgggtg atgttggttg 1200
 tttgtttgtt tctattttgt tggtttttta ctttgttttt tgttttggtt tgttttggtt 1260
 kgcatactac atgcagttct ttaaccaatg tctgtttggc taatgtaatt aaagttgtta 1320
 atttatatga gtgcatttca actatgtcaa tggtttctta atatttattg tgtagaagta 1380
 ctggtaattt ttttatttac aatatgttta aagagataac agtttgatat gttttcatgt 1440
 gtttatagca gaagttattt atttctatgg cattccagcg gatatttttg tgtttgcgag 1500
 gcatgcagtc aatattttgt acagtttagt gacagtattc agcaacgcct gatagcttct 1560
 ttggccttat gttaaataaa aagacctgtt tgggatgtat tttttatttt taaaaaaaaa 1620
 aaaaaaaaaa aaaaaaaaaa aaaaaa 1646

<210> 291
 <211> 1851
 <212> DNA
 <213> Homo sapiens

<400> 291
 tcatcaccat tgccagcagc ggcaccgtta gtcaggtttt ctgggaatcc cacatgagta 60
 cttccgtgtt cttcattctt cttcaatagc cataaatctt ctactctctg ctggctgttt 120
 tcacttcctt taagcctttg tgactcttcc tctgatgtca gctttaagtc ttgttctgga 180
 ttgctgtttt cagaagagat ttttaacatc tgtttttctt tgtagtcaga aagtaactgg 240
 caaattacat gatgatgact agaaacagca tactctctgg cctcttttcc agatcttgag 300
 aagatacatc aacattttgc tcaagtagag ggctgactat acttgotgat ccacaacata 360
 cagcaagtat gagagcagtt cttccatatc tatccagcgc atttaaattc gcttttttct 420
 tgattaaaaa tttcaccact tgctgttttt gctcatgtat accaagtagc agtgggtgtga 480
 ggccatgctt gttttttgat tcgatatcag caccgtataa gagcagtgct ttggccatta 540
 atttatcttc attgtagaca gcatagtgtg gagtgggtatt tccatactca tctggaatat 600
 ttggatcagt gccatgttcc agcaacatta acgcacattc atcttctctg cattgtacgg 660
 cttttgtcag agctgtcctc tttttgttgt caaggacatt aagttgacat cgtctgtcca 720
 gcacgagttt tactacttct gaattcccat tggcagaggg cagatgtaga gcagtcctct 780

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tttgettgtc cctcttgttc acatccgtgt ccctgagcat gacgatgaga tcctttctgg 840
ggactttacc ccaccaggca gctctgtgga gcttgtccag atcttctcca tggacgtggt 900
acctgggatc catgaaggcg ctgtcatcgt agtctcccca agcgaccacg ttgctcttgc 960
cgctcccctg cagcagggga agcagtggca gcaccacttg cacctcttgc tcccaagcgt 1020
cttcacagag gagtctgtgt ggtctccaga agtgcccacg ttgctcttgc cgctcccct 1080
gtccatccag ggaggaagaa atgcaggaaa tgaaagatgc atgcacgatg gtatactcct 1140
cagccatcaa acttctggac agcaggtcac ttccagcaag gtggagaaaag ctgtccaccc 1200
acagaggatg agatccagaa accacaatat ccattcacia acaaacactt ttcagccaga 1260
cacaggatct gaaatcatgt catctgcggc aacatggtgg aacctacca atcacacatc 1320
aagagatgaa gacactgcag tatatctgca caacgtaata ctcttcatcc ataacaaaat 1380
aatataatth tcctctggag ccatatggat gaactatgaa ggaagaactc cccgaagaag 1440
ccagtcgcag agaagccaca ctgaagctct gtccctcagcc atcagcgcca cggacaggat 1500
tgtgtttctt cccagtgat gcagcctcaa gttatccga agctgccgca gcacacgggt 1560
gtccttgaga aacaccccag ctcttccggg ctaacacagg caagtcaata aatgtgataa 1620
tcacataaac agaattaaaa gcaaagtcac ataagcatct caacagacac agaaaaggca 1680
tttgacaaaa tccagcatcc ttgtatttat tgttgagtt ctgagaggaa atgcttctaa 1740
cttttcccca tttagtatta tgttggtgtg gggctgtgca taggtggttt ttattacttt 1800
aaggatgtc ccttctatgc ctgttttgc gagggtttta attctcgtgc c 1851

```

<210> 292

<211> 1851

<212> DNA

<213> Homo sapiens

<400> 292

```

tcatcacat tgccagcagc ggcaccgtta gtcagggttt ctgggaatcc cacatgagta 60
cttccgtggt cttcattctt cttcaatagc cataaatctt ctgctctgg ctggctgttt 120
tcacttcctt taagcctttg tgactcttcc tctgatgtca gctttaagtc ttgttctgga 180
ttgctgtttt cagaagagat ttttaacatc tgtttttctt tgtagtcaga aagtaactgg 240
caaattacat gatgatgact agaaacagca tactctctgg cctcttttcc agatcttgag 300
aagatacatc aacattttgc tcaagtagag ggctgactat acttgctgat ccacaacata 360
cagcaagtat gagagcagtt cttccatata tatccagcgc atttaaattc gcttttttct 420
tgattaaaaa tttcaccact tgctgttttt gctcatgtat accaagtagc agtgggtgtga 480
ggccatgctt gttttttgat tccatatacag caccgtataa gagcagtgct ttggccatta 540
atthtatctt atgttagaca gcatagtgta agtggttatt tccatactca tctggaatat 600
ttggatcagt gccatgttcc agcaaacatta acgcacatcc atcttctgg cattgtacgg 660
cctttgtcag agctgtcctc tttttgttgt caaggacatt aagttgacat cgtctgtcca 720
gcacgagttt tactacttct gaattcccat tggcagaggc cagatgtaga gcagtcctct 780
tttgettgtc cctcttgttc acatccgtgt ccctgagcat gacgatgaga tcctttctgg 840
ggactttacc ccaccaggca gctctgtgga gcttgtccag atcttctcca tggacgtggt 900
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acagaggatg agatccagaa accacaatat ccattcacia acaaacactt ttcagccaga 1260
cacaggatct gaaatcatgt catctgcggc aacatggtgg aacctacca atcacacatc 1320
aagagatgaa gacactgcag tatatctgca caacgtaata ctcttcatcc ataacaaaat 1380
aatataatth tcctctggag ccatatggat gaactatgaa ggaagaactc cccgaagaag 1440
ccagtcgcag agaagccaca ctgaagctct gtccctcagcc atcagcgcca cggacaggat 1500
tgtgtttctt cccagtgat gcagcctcaa gttatccga agctgccgca gcacacgggt 1560
gtccttgaga aacaccccag ctcttccggg ctaacacagg caagtcaata aatgtgataa 1620
tcacataaac agaattaaaa gcaaagtcac ataagcatct caacagacac agaaaaggca 1680
tttgacaaaa tccagcatcc ttgtatttat tgttgagtt ctgagaggaa atgcttctaa 1740

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```

cttttcccca tttagtatta tgttggctgt gggcttgtca taggtgggtt ttattacttt 1800
aaggtatgtc ccttctatgc ctgttttgc gagggtttta attctcgtgc c 1851

```

```

<210> 293
<211> 668
<212> DNA
<213> Homo sapiens

```

```

<400> 293
cttgagcttc caaataygga agactggccc ttacacasgt caatgttaaa atgaatgcat 60
ttcagtatgt tgaagataaa attgtagat ctataccttg ttttttgatt cgatatcagc 120
accrtataag agcagtgcct tggccattaa tttatctttc attttagaca gortagtgya 180
gagtgggtatt tccatactca tctggaatat ttggatcagt gccatgttcc agcaacatta 240
acgcacattc atcttctctg cattgtacgg cctgtcagta ttagacccaa aaacaaatta 300
catatcttag gaattcaaaa taacattcca cagctttcac caactagtta tatttaaagg 360
agaaaactca tttttatgcc atgtattgaa atcaaaccac cctcatgctg atatagttgg 420
ctactgcata cctttatcag agctgtcctc tttttgttgt caaggacatt aagttgacat 480
cgtctgtcca gcaggagttt tactacttct gaattcccat tggcagaggc cagatgtaga 540
gcagtcctat gagagtgaga agacttttta ggaaattgta gtgcactagc tacagccata 600
gcaatgattc atgtaactgc aaacactgaa tagcctgcta ttactctgcc ttcaaaaaaa 660
aaaaaaa 668

```

```

<210> 294
<211> 1512
<212> DNA
<213> Homo sapiens

```

```

<400> 294
gggtcgccca gggggsgcgt gggctttcct cgggtgggtg tgggttttcc ctgggtgggg 60
tgggctgggc trgaatcccc tgctggggtt ggcaggtttt ggctgggatt gaacttttytc 120
ttcaaacaga ttggaacccc ggagttacct gctagtgtgt gaaactgggt ggtagacgcg 180
atctgttggc tactactggc ttctcctggc tgttaaaagc agatgggtgt tgaggttgat 240
tccatgccgg ctgcttcttc tgtgaagaag ccatttggtc tcaggagcaa gatgggcaag 300
tgggtgctgcc gttgcttccc ctgctgcagg gagagcggca agagcaacgt gggcacttct 360
ggagaccacg acgactctgc tatgaagaca ctcaggagca agatgggcaa gtggtgccc 420
cactgcttcc cctgctgcag ggggagtggc aagagcaacg tgggcgcttc tggagaccac 480
gacgaytctg ctatgaagac actcaggaac aagatgggca agtgggtgctg cactgcttc 540
ccctgctgca gggggagcrg caagagcaag gtgggcgctt ggggagacta cgatgacagt 600
gccttcatgg agcccaggta ccacgtccgt ggagaagatc tggacaagct ccacagagct 660
gcctgggtggg gttaaagtccc cagaaaggat ctcatcgtca tgctcaggga cactgacgtg 720
aacaagaagg acaagcaaaa gaggactgct ctacatctgg cctctgccaa tgggaattca 780
gaagtagtaa aactcstgct ggacagacga tgtcaactta atgtccttga caacaaaaag 840
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agaagcatta gagggtagag tttttttttt ttaaattgcac ttctggtaaa tacttttgtt 1260
gaaaacactg aatttgtaaa aggtaatact tactattttt caatttttcc ctctaggat 1320
ttttttcccc taatgaatgt aagatggcaa aatttgccct gaaataggtt ttacatgaaa 1380
actccaagaa aagttaaaca tgtttcagtg aatagagatc ctgctccttt ggcaagttcc 1440
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tgatctcgtg cc 1512

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<210> 295
 <211> 1853
 <212> DNA
 <213> Homo sapiens

<400> 295
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 ttcaaacaga ttggaacccc ggagttacct gctagtgtgt gaaactgggt ggtagacgcg 180
 atctgttggc tactactggc ttctcctggc tgttaaaagc agatgggtgt tgaggttgat 240
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 ggagaccacg acgactctgc tatgaagaca ctcaggagca agatgggcaa gtggtgccgc 420
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 gacgaytctg ctatgaagac actcaggaac aagatgggca agtgggtgctg cactgcttc 540
 ccctgctgca gggggagcrg caagagcaag gtgggcgctt ggggagacta cgatgacagy 600
 gccttcattgg akcccaggta ccacgtccrt ggagaagatc tggacaagct ccacagagct 660
 gcctgggtggg gtaaagtccc cagaaaggat ctcatcgtca tgcacaggga cackgaygtg 720
 aacaagargg acaagcaaaa gaggactgct ctacatctgg cctctgccaa tgggaattca 780
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 cctatgagac taggctttga gaatcaatag attctttttt taagaatctt ttggctagga 1560
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 aaacttagct ggtgtgtgtg gcgggtgcct gtgtgccag ctactcagga rgctgaggca 1740
 ggagaatggc atgaaccgag gaggtggagg ttgcagttag ccgagatccg ccactacact 1800
 ccagcctggg tgacagagca agactctgtc tcaaaaaaaa aaaaaaaaaa aaa 1853

<210> 296
 <211> 2184
 <212> DNA
 <213> Homo sapiens

<400> 296
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 aaaaccacct atgacaagcc cacagccaac ataatactaa atggggaaaa gttagaagca 120
 tttcctctga gaactgcaac aataaatata aggatgctgg attttgtcaa atgccttttc 180
 tgtgtctgtt gagatgctta tgtgactttg cttttaattc tgtttatgtg attatcacat 240
 ttattgactt gcctgtgtta gaccggaaga gctgggggtg ttctcaggag ccaccgtgtg 300
 ctgggcagc ttccggataa cttgaggctg catcactggg gaagaaacac aytccgtgct 360
 gtggcgctga tggctgagga cagagcttca gctgtgcttc tctgcgactg gcttcttogg 420
 ggagttcttc cttcatagtt catccatagt gtccagagg aaaattatat tattttgtta 480
 tggatgaaga gtattacgtt gtgcagatat actgcagtgt cttcatctct tgatgtgtga 540

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ttgggtaggt tccaccatgt tgccgcagat gacatgattt cagtacctgt gtctggctga 600
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gctttctcca ccttgctgga agtgacctgc tgtccagaag tttgatggct gaggagtata 720
ccatcgtgca tgcattcttc atttcctgca tttcttcctc cctggatgga cagggggagc 780
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taataatatt agatagtccc aaatgaaatw acctatgaga ctaggctttg agaatcaata 1860
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cttgagaggc tgaggtgggc agatcacgag atcaggagat cgagaccatc ctggctaaca 1980
cggtgaaacc ccattctctac taaaaataca aaaacttagc tgggtgtggg ggcggtgccc 2040
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gttgacgtga gccgagatcc gccactacac tccagcctgg gtgacagagc aagactctgt 2160
ctcaaaaaaa aaaaaaaaaa aaaa 2184

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<210> 297
<211> 1855
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> 606
<223> n = A,T,C or G

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<400> 297
tgcacgcacg gccagtgctc tgtgccacgt aactgacgc cccctgagat gtgcacgcgc 60
cacgcgcacg ttgcacgcgc ggcagcggtc tggctggctt gtaacggctt gcacgcgcac 120
gocgcccccg cataaccgtc agactggcct gtaacggctt gcaggcgcac gccgcacgcg 180
cgtaacggct tggctgccct gtaacggctt gcacgtgcat gctgcacgcg cgtaaacggc 240
ttggctggca tgtagccgct tggcttggct ttgcatttct tgctkggctk ggcttggkty 300
tcttggattg acgttctctc cttggatkga cgttctctcc ttggatkgaac gtttctytyt 360
tcgogttcct ttgctggact tgacctttty tctgctgggt ttggcattcc tttgggtggg 420
gctgggtggt ttctccgggg gggktkgccc ttctgggggt gggcgtgggk cgccccagc 480
gggcgtgggc tttccccggg tgggtgtggg ttttctggg gtgggtggg ctgtgctggg 540
atccccctgc tggggttggc agggattgac tttttcttc aaacagattg gaaaccggga 600
gtaacntgct agttggtgaa actggttggg agacgcgact tgctggtact actgtttctc 660
ctggctgtta aaagcagatg gtggctgagg ttgattcaat gccgctgct tcttctgtga 720
agaagccatt tggctctcagg agcaagatgg tcaagtgggt cgccactgct tccccctgctg 780
cagggggagc ggcaagagca acgtgggcac ttctggagac cacaacgact cctctgtgaa 840

```

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gacgcttggg agcaagaggt gcaagtgggt ctgccactg cttccctgc tgcaggggag 900
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aaatattcca gatgagtatg gaaataccac totacactat gctgtctaca atgaagataa 1320
attaatggcc aaagcactgc tcttatacgg tgctgatatc gaatcaaaaa acaagggtata 1380
gatctactaa ttttatcttc aaaatactga aatgcattca ttttaacatt gacgtgtgta 1440
agggccagtc ttccgtatctt ggaagctcaa gcataacttg aatgaaaata ttttgaaatg 1500
acctaattat ctaagacttt attttaaata ttgttatctt caaagaagca ttagagggtta 1560
cagttttttt tttttaaatg cacttctggt aaatactttt gttgaaaaca ctgaatttgt 1620
aaaaggtaat acttactatt tttcaatttt tccctcctag gatttttttc ccctaataaa 1680
tgtaagatgg caaaatttgc cctgaaatag gttttacatg aaaactccaa gaaaagttaa 1740
acatgtttca gtgaatagag atcctgctcc tttggcaagt tcctaaaaaa cagtaataga 1800
tacgaggtga tgcgcctgtc agtggcaagg tttaagatat ttctgatctc gtgcc 1855

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<210> 298
<211> 1059
<212> DNA
<213> Homo sapiens

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```

<400> 298
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gcgcttgrgg agactmcgat gacagygcct tcatggagcc caggtaccac gtccgtggag 180
aagatctgga caagctccac agagctgccc tgggtgggta aagtccccag aaaggatctc 240
atcgtcatgc tcagggacac tgaygtgaac aagarggaca agcaaaaagag gactgctcta 300
catctggcct ctgccaatgg gaattcagaa gtagtataaac tcstgctgga cagacgatgt 360
caacttaatg tccttgacaa caaaaagagg acagctctga yaaaggccgt acaatgccag 420
gaagatgaat gtgcgttaat gttgctggaa catggcaactg atccaaatat tccagatgag 480
tatggaaata ccactctrca ctaygctrct tayaatgaag ataaattaat ggccaaagca 540
ctgctcttat ayggtgctga tatcgaatca aaaaacaagg tatagatcta ctaattttat 600
cttcaaaaata ctgaaatgca ttcattttta cattgacgtg tgtaagggcc agtcttccgt 660
atttgggaagc tcaagcataa cttgaatgaa aatattttga aatgacctaa ttatctaaga 720
ctttatttta aatattgtta ttttcaaaga agcattagag ggtacagttt ttttttttta 780
aatgcacttc tggtaaatac ttttgttgaa aacactgaat ttgtaaaagg taatacttac 840
tatttttcaa tttttccctc ctaggatttt tttcccctaa tgaatgtaag atggcaaaat 900
ttgccctgaa ataggtttta catgaaaact ccaagaaaag ttaaacaatgt ttcagtgaat 960
agagatcctg ctcttttggc aagttcctaa aaaacagtaa tagatacgag gtgatgcgcc 1020
tgtcagtggc aaggtttaag atatttctga tctcgtgcc 1059

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<210> 299
<211> 329
<212> PRT
<213> Homo sapiens

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```

<400> 299
Met Asp Ile Val Val Ser Gly Ser His Pro Leu Trp Val Asp Ser Phe
1           5           10           15
Leu His Leu Ala Gly Ser Asp Leu Leu Ser Arg Ser Leu Met Ala Glu
20           25           30
Glu Tyr Thr Ile Val His Ala Ser Phe Ile Ser Cys Ile Ser Ser Ser

```


atgggcaagt ggtgccgcca ctgcttcccc tgctgcaggg ggagtggcaa gagcaacgtg 240
 ggcgttctg gagaccacga cgactctgct atgaagacac tcaggaacaa gatgggcaag 300
 tgggtgctgcc actgcttccc ctgctgcagg gggagcggca agagcaaggt gggcgcttgg 360
 ggagactacg atgacagtgc cttcatggag cccaggtacc acgtccgtgg agaagatctg 420
 gacaagctcc acagagctgc ctggtggggg aaagtcccca gaaaggatct catcgtcatg 480
 ctcagggaca ctgacgtgaa caagaaggac aagcaaaaga ggactgctct acatctggcc 540
 tctgccaatg ggaattcaga agtagtaaaa ctctgctgg acagacgatg tcaacttaat 600
 gtccttgaca acaaaaagag gacagctctg ataaaggccg tacaatgcca ggaagatgaa 660
 tgtgcgtaaa tgttgctgga acatggcact gatccaaata ttccagatga gtatggaaat 720
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 ctggatagat atggaaggac tgctctcata cttgctgtat gttgtggatc agcaagtata 960
 gtcagccttc tacttgagca aaatattgat gtatcttctc aagatctatc tggacagacg 1020
 gccagagagt atgctgtttc tagtcatcat catgtaattt gccagttact ttctgactac 1080
 aaagaaaaac agatgctaaa aatctcttct gaaaacagca atccagaaca agacttaaaag 1140
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 caaaatgata ctcagaagca attttgtaaa gaacagaaca ctggaatatt acacgatgag 1800
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 cttagttgta agaaagaaaa agacatcttg catgaaaata gtacgttgcg ggaagaaatt 1920
 gccatgctaa gactggagct agacacaatg aaacatcaga gccagctaaa aaaaaaaaaa 1980
 aaaaaaaaaa aaaaaaaaaa 2000

<210> 303

<211> 2040

<212> DNA

<213> Homo sapiens

<400> 303

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 aggagcaaga tgggcaagtg gtgctgccgt tgcttcccct gctgcaggga gagcggaag 120
 agcaacgtgg gcacttctgg agaccacgac gactctgcta tgaagacact caggagcaag 180
 atgggcaagt ggtgccgcca ctgcttcccc tgctgcaggg ggagtggcaa gagcaacgtg 240
 ggcgttctg gagaccacga cgactctgct atgaagacac tcaggaacaa gatgggcaag 300
 tgggtgctgcc actgcttccc ctgctgcagg gggagcggca agagcaaggt gggcgcttgg 360
 ggagactacg atgacagtgc cttcatggag cccaggtacc acgtccgtgg agaagatctg 420
 gacaagctcc acagagctgc ctggtggggg aaagtcccca gaaaggatct catcgtcatg 480
 ctcagggaca ctgacgtgaa caagaaggac aagcaaaaga ggactgctct acatctggcc 540
 tctgccaatg ggaattcaga agtagtaaaa ctctgctgg acagacgatg tcaacttaat 600
 gtccttgaca acaaaaagag gacagctctg ataaaggccg tacaatgcca ggaagatgaa 660
 tgtgcgtaaa tgttgctgga acatggcact gatccaaata ttccagatga gtatggaaat 720
 accactctgc atacgctat ctataatgaa gataaattaa tggccaaagc actgctctta 780
 tatggtgctg atatcgaatc aaaaaacaag catggcctca caccactgtt acttgggtgta 840
 catgagcaaa aacagcaagt cgtgaaatct ttaatcaaga aaaaagcgaa tttaaatgca 900
 ctggatagat atggaaggac tgctctcata cttgctgtat gttgtggatc agcaagtata 960

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gtcagccttc tacttgagca aaatattgat gtatcttctc aagatctatc tggacagacg 1020
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atgtctcaag aaccagaaat aaataaggat ggtgatagag aggttgaaga agaaatgaag 1260
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gaaaagcaga tagaagtggg tgaaaaaatg aattctgagc tttctcttag ttgtaagaaa 1920
gaaaaagaca tcttgcacga aaatagtagc ttgcgggaag aaattgccat gctaagactg 1980
gagctagaca caatgaaaca tcagagccag ctaaaaaaa aaaaaaaaaa aaaaaaaaaa 2040

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<210> 304
<211> 384
<212> PRT
<213> Homo sapiens

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<400> 304
Met Val Val Glu Val Asp Ser Met Pro Ala Ala Ser Ser Val Lys Lys
  1             5             10             15
Pro Phe Gly Leu Arg Ser Lys Met Gly Lys Trp Cys Cys Arg Cys Phe
      20             25             30
Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp
      35             40             45
His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp
      50             55             60
Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val
      65             70             75             80
Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Asn
      85             90             95
Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser
      100            105            110
Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe
      115            120            125
Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu His
      130            135            140
Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met
      145            150            155            160
Leu Arg Asp Thr Asp Val Asn Lys Lys Asp Lys Gln Lys Arg Thr Ala
      165            170            175
Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Lys Leu Leu
      180            185            190
Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr
      195            200            205
Ala Leu Ile Lys Ala Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met
      210            215            220

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Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn
 225 230 235 240
 Thr Thr Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala Lys
 245 250 255
 Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly
 260 265 270
 Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln Val Val
 275 280 285
 Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr
 290 295 300
 Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile
 305 310 315 320
 Val Ser Leu Leu Leu Glu Gln Asn Ile Asp Val Ser Ser Gln Asp Leu
 325 330 335
 Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser His His Val
 340 345 350
 Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys Ile
 355 360 365
 Ser Ser Glu Asn Ser Asn Pro Glu Asn Val Ser Arg Thr Arg Asn Lys
 370 375 380

<210> 305
 <211> 656
 <212> PRT
 <213> Homo sapiens

<400> 305
 Met Val Val Glu Val Asp Ser Met Pro Ala Ala Ser Ser Val Lys Lys
 1 5 10 15
 Pro Phe Gly Leu Arg Ser Lys Met Gly Lys Trp Cys Cys Arg Cys Phe
 20 25 30
 Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp
 35 40 45
 His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp
 50 55 60
 Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val
 65 70 75 80
 Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Asn
 85 90 95
 Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser
 100 105 110
 Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe
 115 120 125
 Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu His
 130 135 140
 Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met
 145 150 155 160
 Leu Arg Asp Thr Asp Val Asn Lys Lys Asp Lys Gln Lys Arg Thr Ala
 165 170 175
 Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Lys Leu Leu
 180 185 190
 Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr
 195 200 205

Ala 210	Leu 225	Ile 230	Lys 245	Ala 260	Val 270	Gln 285	Cys 295	Gln 300	Glu 315	Asp 330	Glu 345	Cys 360	Ala 375	Leu 385	Met 400
Leu 225	Leu 230	Glu 245	His 260	Gly 270	Thr 285	Asp 295	Pro 300	Asn 315	Ile 330	Pro 345	Asp 360	Glu 375	Tyr 385	Gly 400	Met 415
Thr 225	Thr 230	Leu 245	His 260	Tyr 270	Ala 285	Ile 295	Tyr 300	Asn 315	Glu 330	Asp 345	Lys 360	Leu 375	Met 385	Ala 400	Lys 415
Ala 225	Leu 230	Leu 245	Leu 260	Tyr 270	Gly 285	Ala 295	Asp 300	Ile 315	Glu 330	Ser 345	Lys 360	Asn 375	Lys 385	His 400	Gly 415
Leu 225	Thr 230	Pro 245	Leu 260	Leu 270	Leu 285	Gly 295	Val 300	His 315	Glu 330	Gln 345	Lys 360	Gln 375	Gln 385	Val 400	Val 415
Lys 225	Phe 230	Leu 245	Ile 260	Lys 270	Lys 285	Lys 295	Ala 300	Asn 315	Leu 330	Asn 345	Ala 360	Leu 375	Asp 385	Arg 400	Tyr 415
Gly 225	Arg 230	Thr 245	Ala 260	Leu 270	Ile 285	Leu 295	Ala 300	Val 315	Cys 330	Cys 345	Gly 360	Ser 375	Ala 385	Ser 400	Ile 415
Val 225	Ser 230	Leu 245	Leu 260	Leu 270	Glu 285	Gln 295	Asn 300	Ile 315	Asp 330	Val 345	Ser 360	Ser 375	Gln 385	Asp 400	Leu 415
Ser 225	Gly 230	Gln 245	Thr 260	Ala 270	Arg 285	Glu 295	Tyr 300	Ala 315	Val 330	Ser 345	Ser 360	His 375	His 385	His 400	Val 415
Ile 225	Cys 230	Gln 245	Leu 260	Leu 270	Ser 285	Asp 295	Tyr 300	Lys 315	Glu 330	Lys 345	Gln 360	Met 375	Leu 385	Lys 400	Ile 415
Ser 225	Ser 230	Glu 245	Asn 260	Ser 270	Asn 285	Pro 295	Glu 300	Gln 315	Asp 330	Leu 345	Lys 360	Leu 375	Thr 385	Ser 400	Glu 415
Glu 225	Glu 230	Ser 245	Gln 260	Arg 270	Phe 285	Lys 295	Gly 300	Ser 315	Glu 330	Asn 345	Ser 360	Gln 375	Pro 385	Glu 400	Lys 415
Met 225	Ser 230	Gln 245	Glu 260	Pro 270	Glu 285	Ile 295	Asn 300	Lys 315	Asp 330	Gly 345	Asp 360	Arg 375	Glu 385	Val 400	Glu 415
Glu 225	Glu 230	Met 245	Lys 260	Lys 270	His 285	Glu 295	Ser 300	Asn 315	Asn 330	Val 345	Gly 360	Leu 375	Leu 385	Glu 400	Asn 415
Leu 225	Thr 230	Asn 245	Gly 260	Val 270	Thr 285	Ala 295	Gly 300	Asn 315	Gly 330	Asp 345	Asn 360	Gly 375	Leu 385	Ile 400	Pro 415
Gln 225	Arg 230	Lys 245	Ser 260	Arg 270	Thr 285	Pro 295	Glu 300	Asn 315	Gln 330	Gln 345	Phe 360	Pro 375	Asp 385	Asn 400	Glu 415
Ser 225	Glu 230	Glu 245	Tyr 260	His 270	Arg 285	Ile 295	Cys 300	Glu 315	Leu 330	Val 345	Ser 360	Asp 375	Tyr 385	Lys 400	Glu 415
Lys 225	Gln 230	Met 245	Pro 260	Lys 270	Tyr 285	Ser 295	Ser 300	Glu 315	Asn 330	Ser 345	Asn 360	Pro 375	Glu 385	Gln 400	Asp 415
Leu 225	Lys 230	Leu 245	Thr 260	Ser 270	Glu 285	Glu 295	Glu 300	Ser 315	Gln 330	Arg 345	Leu 360	Glu 375	Gly 385	Ser 400	Glu 415
Asn 225	Gly 230	Gln 245	Pro 260	Glu 270	Leu 285	Glu 295	Asn 300	Phe 315	Met 330	Ala 345	Ile 360	Glu 375	Glu 385	Met 400	Lys 415
Lys 225	His 230	Gly 245	Ser 260	Thr 270	His 285	Val 295	Gly 300	Phe 315	Pro 330	Glu 345	Asn 360	Leu 375	Thr 385	Asn 400	Gly 415
Ala 225	Thr 230	Ala 245	Gly 260	Asn 270	Gly 285	Asp 295	Asp 300	Gly 315	Leu 330	Ile 345	Pro 360	Pro 375	Arg 385	Lys 400	Ser 415
Arg 225	Thr 230	Pro 245	Glu 260	Ser 270	Gln 285	Gln 295	Phe 300	Pro 315	Asp 330	Thr 345	Glu 360	Asn 375	Glu 385	Glu 400	Tyr 415
His 225	Ser 230	Asp 245	Glu 260	Gln 270	Asn 285	Asp 295	Thr 300	Gln 315	Lys 330	Gln 345	Phe 360	Cys 375	Glu 385	Glu 400	Gln 415
Asn 225	Thr 230	Gly 245	Ile 260	Leu 270											

Ala Met Leu Arg Leu Glu Leu Asp Thr Met Lys His Gln Ser Gln Leu
645 650 655

<210> 306

<211> 671

<212> PRT

<213> Homo sapiens

<400> 306

Met Val Val Glu Val Asp Ser Met Pro Ala Ala Ser Ser Val Lys Lys
1 5 10 15
Pro Phe Gly Leu Arg Ser Lys Met Gly Lys Trp Cys Cys Arg Cys Phe
20 25 30
Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp
35 40 45
His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp
50 55 60
Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val
65 70 75 80
Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Asn
85 90 95
Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser
100 105 110
Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe
115 120 125
Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu His
130 135 140
Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met
145 150 155 160
Leu Arg Asp Thr Asp Val Asn Lys Lys Asp Lys Gln Lys Arg Thr Ala
165 170 175
Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Lys Leu Leu
180 185 190
Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr
195 200 205
Ala Leu Ile Lys Ala Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met
210 215 220
Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn
225 230 235 240
Thr Thr Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala Lys
245 250 255
Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly
260 265 270
Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln Val Val
275 280 285
Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr
290 295 300
Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile
305 310 315 320
Val Ser Leu Leu Leu Glu Gln Asn Ile Asp Val Ser Ser Gln Asp Leu
325 330 335
Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser His His His Val
340 345 350

Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys Ile
 355 360 365
 Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp Leu Lys Leu Thr Ser Glu
 370 375 380
 Glu Glu Ser Gln Arg Phe Lys Gly Ser Glu Asn Ser Gln Pro Glu Lys
 385 390 395 400
 Met Ser Gln Glu Pro Glu Ile Asn Lys Asp Gly Asp Arg Glu Val Glu
 405 410 415
 Glu Glu Met Lys Lys His Glu Ser Asn Asn Val Gly Leu Leu Glu Asn
 420 425 430
 Leu Thr Asn Gly Val Thr Ala Gly Asn Gly Asp Asn Gly Leu Ile Pro
 435 440 445
 Gln Arg Lys Ser Arg Thr Pro Glu Asn Gln Gln Phe Pro Asp Asn Glu
 450 455 460
 Ser Glu Glu Tyr His Arg Ile Cys Glu Leu Val Ser Asp Tyr Lys Glu
 465 470 475 480
 Lys Gln Met Pro Lys Tyr Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp
 485 490 495
 Leu Lys Leu Thr Ser Glu Glu Glu Ser Gln Arg Leu Glu Gly Ser Glu
 500 505 510
 Asn Gly Gln Pro Glu Lys Arg Ser Gln Glu Pro Glu Ile Asn Lys Asp
 515 520 525
 Gly Asp Arg Glu Leu Glu Asn Phe Met Ala Ile Glu Glu Met Lys Lys
 530 535 540
 His Gly Ser Thr His Val Gly Phe Pro Glu Asn Leu Thr Asn Gly Ala
 545 550 555 560
 Thr Ala Gly Asn Gly Asp Asp Gly Leu Ile Pro Pro Arg Lys Ser Arg
 565 570 575
 Thr Pro Glu Ser Gln Gln Phe Pro Asp Thr Glu Asn Glu Glu Tyr His
 580 585 590
 Ser Asp Glu Gln Asn Asp Thr Gln Lys Gln Phe Cys Glu Glu Gln Asn
 595 600 605
 Thr Gly Ile Leu His Asp Glu Ile Leu Ile His Glu Glu Lys Gln Ile
 610 615 620
 Glu Val Val Glu Lys Met Asn Ser Glu Leu Ser Leu Ser Cys Lys Lys
 625 630 635 640
 Glu Lys Asp Ile Leu His Glu Asn Ser Thr Leu Arg Glu Glu Ile Ala
 645 650 655
 Met Leu Arg Leu Glu Leu Asp Thr Met Lys His Gln Ser Gln Leu
 660 665 670

<210> 307
 <211> 800
 <212> DNA
 <213> Homo sapiens

<400> 307
 atkagcttcc gcttctgaca acactagaga tccctcccct ccctcagggt atggccctcc 60
 acttcatttt tggtacataa catctttata ggacagggtt aaaatcccaa tactaacagg 120
 agaatgctta ggactctaac aggtttttga gaatgtgttg gtaaggggcca ctcaatccaa 180
 tttttcttgg tcctccttgg ggtctaggag gacaggcaag ggtgcagatt ttcaagaatg 240
 catcagtaag ggcactaaa tccgaccttc ctcgttcctc cttgtggtct gggaggaaaa 300
 ctagtgtttc tgttgctgtg tcagttagca caactattcc gatcagcagg gtccagggac 360


```

cactgcaggt tcttgggcag ggggagaaac aaaacaaacc aaaaccatgg gcrgttttgt 420
ctttcagatg ggaaacactc aggcacatcaac aggtcacctc ttgaaatgca tcctaagcca 480
atgggacaaa ttgacccac aaaccctgga aaaagaggtg gctcattttt ttgcaactat 540
ggcttggccc caacattctc tctctgatgg ggaaaaatgg ccacctgagg gaagtacaga 600
ttacaatact atcctgcagc ttgacctttt ctgtaagagg gaaggcaaat ggagtgaat 660
accttatgtc caagctttct ttgcattgaa ggagaatata ctatgcaaag cttgaaattt 720
acatcccaca ggaggacctc tcagcttacc cccatatcct agcctcccta tagctcccct 780
tcctattagt gataagcctc                                     800

```

<210> 308

<211> 102

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> 3

<223> Xaa = Any Amino Acid

<400> 308

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Met Gly Xaa Phe Val Phe Gln Met Gly Asn Thr Gln Ala Ser Thr Gly
 1           5           10           15
Ser Pro Leu Lys Cys Ile Leu Ser Gln Trp Asp Lys Phe Asp Pro Gln
          20          25          30
Thr Leu Glu Lys Glu Val Ala His Phe Phe Cys Thr Met Ala Trp Pro
        35         40         45
Gln His Ser Leu Ser Asp Gly Glu Lys Trp Pro Pro Glu Gly Ser Thr
        50         55         60
Asp Tyr Asn Thr Ile Leu Gln Leu Asp Leu Phe Cys Lys Arg Glu Gly
65          70          75          80
Lys Trp Ser Glu Ile Pro Tyr Val Gln Ala Phe Phe Ser Leu Lys Glu
          85          90          95
Asn Thr Leu Cys Lys Ala
          100

```

<210> 309

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in the lab

<400> 309

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Leu Met Ala Glu Glu Tyr Thr Ile Val
 1           5

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<210> 310

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in the lab

<400> 310

Lys Leu Met Ala Lys Ala Leu Leu Leu
 1 5

<210> 311

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in the lab

<400> 311

Gly Leu Thr Pro Leu Leu Leu Gly Ile
 1 5

<210> 312

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in the lab

<400> 312

Lys Leu Val Leu Asp Arg Arg Cys Gln Leu
 1 5 10

<210> 313

<211> 1852

<212> DNA

<213> Homo sapiens

<400> 313

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ggcacgagaa ttaaaaccct cagcaaaaaca ggcatagaag ggacatacct taaagtaata 60
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tttctcttga gaactgcaac aataaatata aggatgctgg attttgtaa atgccttttc 180
tgtgtctgtt gagatgctta tgtgactttg cttttaattc tgtttatgtg attatcacat 240
ttattgactt gcctgtgtta gaccggaaga gctgggggtg ttctcaggag ccaccgtgtg 300
ctgcggcagc ttcgggataa cttgaggctg catcactggg gaagaaacac aytccctgtcc 360
gtggcgctga tggctgagga cagagcttca gtgtggcttc tctgcgactg gcttcttcgg 420
ggagtcttcc cttcatagtt catccatatg gctccagagg aaaattatat tattttgtta 480
tggatgaaga gtattacgtt gtgcagatat actgcagtgt cttcatctct tgatgtgtga 540
ttgggtaggt tccaccatgt tgccgcagat gacatgattt cagtacctgt gtctggctga 600
aaagtgtttg tttgtgaatg gatattgtgg tttctggatc tcatcctctg tgggtggaca 660
gctttctcca ccttgctgga agtgacctgc tgtccagaag tttgatggct gaggagtata 720
ccatcgtgca tgcacttttc atttcctgca tttcttcctc cctggatgga cagggggagc 780
ggcaagagca acgtgggcac ttctggagac cacaacgact cctctgtgaa gacgcttggg 840

```

```

agcaagaggt gcaagtgggt ctgccactgc tccccctgct gcagggggag cggcaagagc 900
aacgtgggtcg cttgggggaga ctacgatgac agcgcccttca tggatcccag gtaccacgtc 960
catggagaag atctggacaa gctccacaga gctgcctggt ggggtaaagt ccccagaaag 1020
gatctcatcg tcatgctcag ggacacggat gtgaacaaga gggacaagca aaagaggact 1080
gctctacatc tggcctctgc caatgggaat tcagaagtag taaaactcgt gctggacaga 1140
cgatgtcaac ttaatgtcct tgacaacaaa aagaggacag ctctgacaaa ggccgtacaa 1200
tgccaggaag atgaatgtgc gttaatgttg ctggaacatg gcactgatcc aaatattcca 1260
gatgagtatg gaaataccac tctacactat gctgtctaca atgaagataa attaattggc 1320
aaagcactgc tcttatacgg tgctgatata gaatcaaaaa acaagcatgg cctcacacca 1380
ctgctacttg gtatacatga gcaaaaacag caagtgggtga aatttttaat caagaaaaaa 1440
gcgaatttaa atgcgctgga tagatatgga agaactgctc tcataacttg tgtatgttgt 1500
ggatcagcaa gtatagtcag ccctctactt gagcaaaatg ttgatgtatc ttctcaagat 1560
ctggaaagac ggccagagag tatgctgttt ctagtcatca tcatgtaatt tgccagttac 1620
tttctgacta caaagaaaaa cagatgttaa aaatctcttc tgaaaacagc aatccagaac 1680
aagacttaaa gctgacatca gaggaagagt cacaaaggct taaaggaagt gaaaacagcc 1740
agccagagct agaagattta tggctattga agaagaatga agaacacgga agtactcatg 1800
tgggattccc agaaaacctg actaacggtg ccgctgctgg caatggtgat ga 1852

```

```

<210> 314
<211> 879
<212> DNA
<213> Homo sapiens

```

```

<400> 314
atgcatcttt catttcctgc atttcttctt ccctggatgg acagggggag cggcaagagc 60
aacgtgggca cttctggaga ccacaacgac tcctctgtga agacgcttgg gagcaagagg 120
tgcaagtggg gctgccactg cttccccctg tgcaggggga gcggcaagag caacgtggtc 180
gcttggggag actacgatga cagcgcttcc atggatccca ggtaccacgt ccatggagaa 240
gatctggaca agctccacag agctgcctgg tggggtaaag tccccagaaa ggatctcatc 300
gtcatgtctc gggacacgga tgtgaacaag agggacaagc aaaagaggac tgctctacat 360
ctggcctctg ccaatgggaa ttcagaagta gtaaaactcg tgctggacag acgatgtcaa 420
cttaatgtcc ttgacaacaa aaagaggaca gctctgacaa aggccgtaca atgccaggaa 480
gatgaatgtg cgttaatgtt gctggaacat ggcaactgat caaatatttc agatgagtat 540
ggaaatacca ctctacacta tgctgtctac aatgaagata aattaatggc caaagcactg 600
ctcttatacg gtgctgatat cgaatcaaaa aacaagcatg gcctcacacc actgctactt 660
ggtatacatg agcaaaaaa gcaagtgggt aaatttttaa tcaagaaaaa agcgaattta 720
aatgcgctgg atagatatgg aagaactgct tcataacttg ctgtatgttg tggatcagca 780
agtatagtca gccctctact tgagcaaaat gttgatgtat cttctcaaga tctggaaaga 840
cggccagaga gtatgctgtt ttagtcatc atcatgtaa 879

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```

<210> 315
<211> 292
<212> PRT
<213> Homo sapiens

```

```

<400> 315
Met His Leu Ser Phe Pro Ala Phe Leu Pro Pro Trp Met Asp Arg Gly
      5              10              15

Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp His Asn Asp Ser Ser
      20              25              30

Val Lys Thr Leu Gly Ser Lys Arg Cys Lys Trp Cys Cys His Cys Phe

```

35 40 45
 Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val Val Ala Trp Gly Asp
 50 55 60
 Tyr Asp Asp Ser Ala Phe Met Asp Pro Arg Tyr His Val His Gly Glu
 65 70 75 80
 Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp Gly Lys Val Pro Arg
 85 90 95
 Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys Arg Asp
 100 105 110
 Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser
 115 120 125
 Glu Val Val Lys Leu Val Leu Asp Arg Arg Cys Gln Leu Asn Val Leu
 130 135 140
 Asp Asn Lys Lys Arg Thr Ala Leu Thr Lys Ala Val Gln Cys Gln Glu
 145 150 155 160
 Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile
 165 170 175
 Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Val Tyr Asn Glu
 180 185 190
 Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu
 195 200 205
 Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu Leu Gly Ile His Glu
 210 215 220
 Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu
 225 230 235 240
 Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala Val Cys
 245 250 255
 Cys Gly Ser Ala Ser Ile Val Ser Pro Leu Leu Glu Gln Asn Val Asp
 260 265 270
 Val Ser Ser Gln Asp Leu Glu Arg Arg Pro Glu Ser Met Leu Phe Leu
 275 280 285
 Val Ile Ile Met
 290

<210> 316
 <211> 584
 <212> DNA
 <213> Homo sapiens

<400> 316
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 ttttttgtgg tcctttggag atttctttgc ttattttctt ctgggtgggg gtgattagag 120
 gaggttattc actaatagga aggggagcta tagggaggct aggatatggg ggtaagctga 180
 gaggtcctcc tgtgggatgt aaatttcaag ctttgcatag tgtattctcc ttcaatgaaa 240
 agaaagcttg gacataaggt atttcaactc atttgccttc cctcttacag aaaagggtcaa 300
 gctgcaggat agtattgtaa tctgtacttc cctcagggtg ccatttttcc ccatcagaga 360
 gagaatgttg gggccaagcc atagtgcaga aaaaaaatg agccacctct tttccagggt 420
 tttgtgggtc aaatttgtcc cattggctta ggatgcattt caaagggtgag cctgttgatg 480
 cctgagtgtt tcccatctga aagacaaaac tgcccatggt tttggtttgt tttgtttctc 540
 ccctgccca agaactatca aactcctgag ccaacaacta aaaa 584

<210> 317
 <211> 829
 <212> DNA
 <213> Homo sapiens

<400> 317
 attagcttcc gcttctgaca aactagaga tccctccct cctcagggt atggccctcc 60
 acttcatttt tggtacataa catctttata ggacaggggt aaaatcccaa tactaacagg 120
 agaatgctta ggactctaac aggtttttga gaatgtgttg gtaagggcca ctcaatccaa 180
 tttttcttgg tcctccttgt ggtctaggag gacaggcaag ggtgcagatt ttcaagaatg 240
 catcagtaag ggccactaaa tccgaccttc ctctgttctc cttgtggtct gggaggaaaa 300
 ctagtgtttc tgttgctgtg tcagtgcaga caactattcc gatcagcagg gtccagggtc 360
 cactgcagggt tcttgggcag ggggagaaac aaaacaaacc aaaacctggt gcagttttgt 420
 ctttcagatg ggaaacactc aggcataaac aggtctacct ttgaaatgca tcctaagcca 480
 atgggacaaa tttgaccac aaacctgga aaaagagggt gctcattttt tttgcactat 540
 ggcttggccc caacattctc tctctgatgg ggaaaaatgg ccacctgagg gaagtacaga 600
 ttacaatact atcctgcagc ttgaccttt ctgtaagagg gaaggcaaat ggagtgaat 660
 accttatgtc caagctttct tttcattgaa ggagaatata ctatgcaaag cttgaaattt 720
 acatcccaca ggaggacctc tcagcttacc cccatctct agcctcccta tagctccct 780
 tcctattagt gataagcctc ctctaatac cccacccag aagaaaata 829

<210> 318
 <211> 30
 <212> PRT
 <213> Homo sapien

<400> 318
 Thr Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Gln Gly Phe
 1 5 10 15
 Ala Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile
 20 25 30

<210> 319
 <211> 41
 <212> DNA
 <213> Artificial Sequence

<220>

<223> PCR primer

<400> 319

ggcctctgcc aatgggaact cagaagtagt aaaactcctg c 41

<210> 320

<211> 41

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 320

gcaggagttt tactacttct gagttcccat tggcagaggc c 41

<210> 321

<211> 60

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 321

ggggaattcc cgctggtgcc gcgcggcagc cctatggtgg ttgaggttga 50
ttccatgccg 60

<210> 322

<211> 42

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 322

cccggaattct tatttatctt tggttcttga gacattttct gg 42

<210> 323

<211> 1590

<212> DNA

<213> Homo sapiens

<400> 323

atgcatcacc atcaccatca cacggccgcg tccgataact tccagctgtc ccagggtggg 60
cagggattcg ccattccgat cgggcaggcg atggcgatcg cgggccagat caagcttccc 120

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<210> 324
<211> 529
<212> PRT
<213> Homo sapiens
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<400> 324
Met His His His His His His Thr Ala Ala Ser Asp Asn Phe Gln Leu
          5                      10                      15

Ser Gln Gly Gly Gln Gly Phe Ala Ile Pro Ile Gly Gln Ala Met Ala
          20                      25                      30

Ile Ala Gly Gln Ile Lys Leu Pro Thr Val His Ile Gly Pro Thr Ala
          35                      40                      45

Phe Leu Gly Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val
          50                      55                      60

Gln Arg Val Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr
          65                      70                      75                      80

Gly Asp Val Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr
          85                      90                      95

Ala Met Ala Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser
          100                      105                      110

```

Val	Thr	Trp	Gln	Thr	Lys	Ser	Gly	Gly	Thr	Arg	Thr	Gly	Asn	Val	Thr
		115					120					125			
Leu	Ala	Glu	Gly	Pro	Pro	Ala	Glu	Phe	Pro	Leu	Val	Pro	Arg	Gly	Ser
	130					135					140				
Pro	Met	Val	Val	Glu	Val	Asp	Ser	Met	Pro	Ala	Ala	Ser	Ser	Val	Lys
145					150					155					160
Lys	Pro	Phe	Gly	Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp	Cys	Cys	Arg	Cys
				165					170					175	
Phe	Pro	Cys	Cys	Arg	Glu	Ser	Gly	Lys	Ser	Asn	Val	Gly	Thr	Ser	Gly
			180					185					190		
Asp	His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Ser	Lys	Met	Gly	Lys
		195					200					205			
Trp	Cys	Arg	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser	Gly	Lys	Ser	Asn
	210					215					220				
Val	Gly	Ala	Ser	Gly	Asp	His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg
225					230					235					240
Asn	Lys	Met	Gly	Lys	Trp	Cys	Cys	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly
				245					250					255	
Ser	Gly	Lys	Ser	Lys	Val	Gly	Ala	Trp	Gly	Asp	Tyr	Asp	Asp	Ser	Ala
			260					265					270		
Phe	Met	Glu	Pro	Arg	Tyr	His	Val	Arg	Gly	Glu	Asp	Leu	Asp	Lys	Leu
		275					280					285			
His	Arg	Ala	Ala	Trp	Trp	Gly	Lys	Val	Pro	Arg	Lys	Asp	Leu	Ile	Val
	290					295					300				
Met	Leu	Arg	Asp	Thr	Asp	Val	Asn	Lys	Lys	Asp	Lys	Gln	Lys	Arg	Thr
305					310					315					320
Ala	Leu	His	Leu	Ala	Ser	Ala	Asn	Gly	Asn	Ser	Glu	Val	Val	Lys	Leu
				325					330					335	
Leu	Leu	Asp	Arg	Arg	Cys	Gln	Leu	Asn	Val	Leu	Asp	Asn	Lys	Lys	Arg
			340					345					350		
Thr	Ala	Leu	Ile	Lys	Ala	Val	Gln	Cys	Gln	Glu	Asp	Glu	Cys	Ala	Leu
		355					360					365			
Met	Leu	Leu	Glu	His	Gly	Thr	Asp	Pro	Asn	Ile	Pro	Asp	Glu	Tyr	Gly
	370					375					380				
Asn	Thr	Thr	Leu	His	Tyr	Ala	Ile	Tyr	Asn	Glu	Asp	Lys	Leu	Met	Ala
385					390					395					400

Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys His
 405 410 415

Gly Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln Val
 420 425 430

Val Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg
 435 440 445

Tyr Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser
 450 455 460

Ile Val Ser Leu Leu Leu Glu Gln Asn Ile Asp Val Ser Ser Gln Asp
 465 470 475 480

Leu Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser His His His
 485 490 495

Val Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys
 500 505 510

Ile Ser Ser Glu Asn Ser Asn Pro Glu Asn Val Ser Arg Thr Arg Asn
 515 520 525

Lys

<210> 325
 <211> 1155
 <212> DNA
 <213> Homo sapiens

<400> 325
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 agcaacatgg gcacttcttg agaccacgac gactccttta tgaagatgct caggagcaag 180
 atgggcaagt gttgccgcca ctgcttcccc tgcctgcagg ggagcggcac gagcaacgtg 240
 ggcacttctg gagaccatga aaactccttt atgaagatgc tcaggagcaa gatgggcaag 300
 tgggtgctgtc actgcttccc ctgctgcagg gggagcggca agagcaacgt gggcgcttgg 360
 ggagactacg accacagcgc cttcatggag ccgagggtacc acatccgtcg agaagatctg 420
 gacaagctcc acagagctgc ctggtggggt aaagtcccca gaaaggatct catcgatcat 480
 ctgagggaca ctgacatgaa caagagggac aaggaaaaga ggactgctct acatttggcc 540
 tctgccaatg gaaattcaga agtagtacia ctctgctggt acagacgatg tcaacttaat 600
 gtccttgaca acaaaaaaag gacagctctg ataaaggcca tacaatgcca ggaagatgaa 660
 tgtgtgttaa tgttgctgga acatggcgct gatcgaaata ttccagatga gtatggaaat 720
 accgctctac actatgctat ctacaatgaa gataaattaa tggccaaagc actgctctta 780
 tatggtgctg atattgaatc aaaaaacaag gttggcctca caccactttt gcttggcgta 840
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 cttgatagat atggaaggac tgccctcata cttgctgtat gttgtggatc agcaagtata 960
 gtcaatcttc tacttgagca aaatgttgat gtatcttctc aagatctatc tggacagacg 1020
 gccagagagt atgctgtttc tagtcatcat catgtaattt gtgaattact ttctgactat 1080
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 accagaaata aataa 1155

<210> 326
 <211> 384
 <212> PRT
 <213> Homo sapiens

<400> 326

Met Val Ala Glu Val Cys Ser Met Pro Thr Ala Ser Thr Val Lys Lys
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Pro Phe Asp Leu Arg Ser Lys Met Gly Lys Trp Cys His His Arg Phe
 20 25 30

Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Met Gly Thr Ser Gly Asp
 35 40 45

His Asp Asp Ser Phe Met Lys Met Leu Arg Ser Lys Met Gly Lys Cys
 50 55 60

Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Thr Ser Asn Val
 65 70 75 80

Gly Thr Ser Gly Asp His Glu Asn Ser Phe Met Lys Met Leu Arg Ser
 85 90 95

Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser
 100 105 110

Gly Lys Ser Asn Val Gly Ala Trp Gly Asp Tyr Asp His Ser Ala Phe
 115 120 125

Met Glu Pro Arg Tyr His Ile Arg Arg Glu Asp Leu Asp Lys Leu His
 130 135 140

Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met
 145 150 155 160

Leu Arg Asp Thr Asp Met Asn Lys Arg Asp Lys Glu Lys Arg Thr Ala
 165 170 175

Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Gln Leu Leu
 180 185 190

Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr
 195 200 205

Ala Leu Ile Lys Ala Ile Gln Cys Gln Glu Asp Glu Cys Val Leu Met
 210 215 220

Leu Leu Glu His Gly Ala Asp Arg Asn Ile Pro Asp Glu Tyr Gly Asn
 225 230 235 240

Thr Ala Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala Lys
 245 250 255

Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys Val Gly
260 265 270

Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln Val Val
275 280 285

Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Val Leu Asp Arg Tyr
290 295 300

Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile
305 310 315 320

Val Asn Leu Leu Leu Glu Gln Asn Val Asp Val Ser Ser Gln Asp Leu
325 330 335

Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser His His His Val
340 345 350

Ile Cys Glu Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys Ile
355 360 365

Ser Ser Glu Asn Ser Asn Pro Glu Asn Val Ser Arg Thr Arg Asn Lys
370 375 380

<210> 327

<211> 634

<212> DNA

<213> Homo sapiens

<400> 327

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cagacgatgt caacttaata tccttgacaa caaaaagagg acagctctga caaaggccgt 120
acaatgccag gaagatgaat gtgcgttaat gttgctggaa catggcactg atccgaatat 180
tccagatgag tatggaaata ccgctctaca ctatgctatc tacaatgaag ataaattaat 240
ggccaaagca ctgctcttat acggtgctga tatcgaatca aaaaacaagc atggcctcac 300
accactgtta cttggtgtac atgagcaaaa acagcaagtg gtgaaatttt taatcaagaa 360
aaaagcaaat ttaaattgcac tggatagata tggaagaact gctctcatac ttgctgtatg 420
ttgtggatcg gcaagtatag tcagccttct acttgagcaa aacattgatg tatcttctca 480
agatctatct ggacagacgg ccagagagta tgctgtttct agtcgtcata atgtaatttg 540
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tccaggaaat gtctcaagaa ccagaaataa ataa 634
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<210> 328

<211> 1155

<212> DNA

<213> Homo sapiens

<400> 328

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agcaacgtgg gcaattcttg agaccacgac gactctgcta tgaagacact caggagcaag 180
atgggcaagt ggtgccgcca ctgcttcccc tgctgcaggg ggagtggcaa gagcaacgtg 240
ggcgcttctg gagaccaaga cgactctgct atgaagacac tcaggaacaa gatgggcaag 300
tgggtgctgcc actgcttccc ctgctgcagg gggagcagca agagcaaggt gggcgcttgg 360
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ggagactacg atgacagtgc cttcatggag cccaggtacc acgtccgtgg agaagatctg 420
gacaagctcc acagagctgc ctggtggggt aaagtcccca gaaaggatct catcgtcatg 480
ctcagggaca ctgacgtgaa caagcaggac aagcaaaaga ggactgctct acatctggcc 540
tctgccaatg ggaattcaga agtagtaaaa ctctgctgg acagacgatg tcaacttaat 600
gtccttgaca acaaaaaagag gacagctctg ataaaggccg tacaatgcca ggaagatgaa 660
tgtgctgtaa tgttgctgga acatggcact gatccaaata ttccagatga gtatggaaat 720
accactctgc actacgctat ctataatgaa gataaattaa tggccaaagc actgctctta 780
tatggtgctg atatcgaatc aaaaaacaag catggcctca caccactgtt acttggtgta 840
catgagcaaa aacagcaagt cgtgaaatct ttaattaaga aaaaagcgaa tttaaatgca 900
ctggatagat atggaaggac tgctctcata cttgctgtat gttgtggatc agcaagtata 960
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gccagagagt atgctgtttc tagtcatcat catgtaattt gccagttact ttctgactac 1080
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<210> 329

<211> 1155

<212> DNA

<213> Homo sapiens

<400> 329

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agcaacatgg gcacttctgg agaccacgac gactccttta tgaagacgct caggagcaag 180
atgggcaagt gttgccacca ctgcttcccc tgctgcaggg ggagcggcac gagcaatgtg 240
ggcacttctg gagaccatga caactccttt atgaagacac tcaggagcaa gatgggcaag 300
tggtgctgtc actgcttccc ctgctgcagg gggagcggca agagcaacgt gggcacttgg 360
ggagactacg acgacagcgc cttcatggag ccgaggtacc acgtccgtcg agaagatctg 420
gacaagctcc acagagctgc ctggtggggt aaagtcccca gaaaggatct catcgtcatg 480
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tctgccaatg gaaattcaga agtagtacia ctctgctgg acagacgatg tcaacttaac 600
gtccttgaca acaaaaaaag gacagctctg ataaaggccg tacaatgcca ggaagatgaa 660
tgtgtgttaa tgttgctgga acatggcgct gatggaaata ttcaagatga gtatggaaat 720
accgctctac actatgctat ctacaatgaa gataaattaa tggccaaagc actgctctta 780
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gtcaatcttc tacttgagca aaatgttgat gtatcttctc aagatctatc tggacagacg 1020
gccagagagt atgctgtttc tagtcatcat catgtaattt gtgaattact ttctgactat 1080
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<210> 330

<211> 1155

<212> DNA

<213> Homo sapiens

<400> 330

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agcaacatgg gcacttctgg agaccacgac gactccttta tgaagatgct caggagcaag 180
atgggcaagt gttgccacca ctgcttcccc tgctgcaggg ggagcggcac gagcaacgtg 240
ggcacttctg gagaccatga aaactccttt atgaagatgc tcaggagcaa gatgggcaag 300
tggtgctgtc actgcttccc ctgctgcagg gggagcggca agagcaacgt gggcgcttgg 360

```

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ggagactacg accacagcgc cttcatggag ccgaggtacc acatccgtcg agaagatctg 420
gacaagctcc acagagctgc ctggtggggt aaagtcccca gaaaggatct catcgtcatg 480
ctcagggaca ctgacatgaa caagagggac aaggaaaaga ggactgctct acatttggcc 540
tctgccaatg gaaattcaga agtagtacia ctctgtctgg acagacgatg tcaacttaat 600
gtccttgaca acaaaaaaag gacagctctg ataaaggcca tacaatgcca ggaagatgaa 660
tgtgtgttaa tgttgctgga acatggcgct gatcgaaata ttccagatga gtatggaaat 720
accgctctac actatgctat ctacaatgaa gataaattaa tggccaaagc actgctctta 780
tatggtgctg atattgaatc aaaaaacaag tgtggcctca caccactttt gcttggcgta 840
catgaacaaa aacagcaagt ggtgaaatth ttaatcaaga aaaaagctaa tttaaatgta 900
cttgatagat atggaagaac tgccctcata cttgctgtat gttgtggatc agcaagtata 960
gtcaatcttc tacttgagca aaatgttgat gtatcttctc aagatctatc tggacagacg 1020
gccagagagt atgctgtttc tagtcatcat catgtaatth gtgaattact ttctgactat 1080
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accagaaata aataa 1155

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<210> 331

<211> 210

<212> PRT

<213> Homo sapiens

<400> 331

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Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Lys
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Leu Leu Leu Asp Arg Arg Cys Gln Leu Asn Ile Leu Asp Asn Lys Lys
          20              25              30

```

```

Arg Thr Ala Leu Thr Lys Ala Val Gln Cys Gln Glu Asp Glu Cys Ala
          35              40              45

```

```

Leu Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp Glu Tyr
          50              55              60

```

```

Gly Asn Thr Ala Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met
          65              70              75              80

```

```

Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys
          85              90              95

```

```

His Gly Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln
          100              105              110

```

```

Val Val Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Ala Leu Asp
          115              120              125

```

```

Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala
          130              135              140

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```

Ser Ile Val Ser Leu Leu Leu Glu Gln Asn Ile Asp Val Ser Ser Gln
          145              150              155              160

```

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Asp Leu Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser Arg His
          165              170              175

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Asn Val Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln Ile Leu
180 185 190

Lys Val Ser Ser Glu Asn Ser Asn Pro Gly Asn Val Ser Arg Thr Arg
195 200 205

Asn Lys
210

<210> 332

<211> 384

<212> PRT

<213> Homo sapiens

<400> 332

Met Val Ala Glu Val Cys Ser Met Pro Thr Ala Ser Thr Val Lys Lys
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Pro Phe Asp Leu Arg Ser Lys Met Gly Lys Trp Cys His His Arg Phe
20 25 30

Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Met Gly Thr Ser Gly Asp
35 40 45

His Asp Asp Ser Phe Met Lys Met Leu Arg Ser Lys Met Gly Lys Cys
50 55 60

Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Thr Ser Asn Val
65 70 75 80

Gly Thr Ser Gly Asp His Glu Asn Ser Phe Met Lys Met Leu Arg Ser
85 90 95

Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser
100 105 110

Gly Lys Ser Asn Val Gly Ala Trp Gly Asp Tyr Asp His Ser Ala Phe
115 120 125

Met Glu Pro Arg Tyr His Ile Arg Arg Glu Asp Leu Asp Lys Leu His
130 135 140

Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met
145 150 155 160

Leu Arg Asp Thr Asp Met Asn Lys Arg Asp Lys Glu Lys Arg Thr Ala
165 170 175

Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Gln Leu Leu
180 185 190

Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr
195 200 205

Ala Leu Ile Lys Ala Ile Gln Cys Gln Glu Asp Glu Cys Val Leu Met
210 215 220

Leu Leu Glu His Gly Ala Asp Arg Asn Ile Pro Asp Glu Tyr Gly Asn
225 230 235 240

Thr Ala Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala Lys
245 250 255

Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys Cys Gly
260 265 270

Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln Val Val
275 280 285

Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Val Leu Asp Arg Tyr
290 295 300

Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile
305 310 315 320

Val Asn Leu Leu Leu Glu Gln Asn Val Asp Val Ser Ser Gln Asp Leu
325 330 335

Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser His His His Val
340 345 350

Ile Cys Glu Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys Ile
355 360 365

Ser Ser Glu Asn Ser Asn Pro Glu Asn Val Ser Arg Thr Arg Asn Lys
370 375 380

<210> 333

<211> 384

<212> PRT

<213> Homo sapiens

<400> 333

Met Val Ala Glu Val Cys Ser Met Pro Ala Ala Ser Ala Val Lys Lys
5 10 15

Pro Phe Asp Leu Arg Ser Lys Met Gly Lys Trp Cys His His Arg Phe
20 25 30

Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Met Gly Thr Ser Gly Asp
35 40 45

His Asp Asp Ser Phe Met Lys Thr Leu Arg Ser Lys Met Gly Lys Cys
50 55 60

Cys His His Cys Phe Pro Cys Cys Arg Gly Ser Gly Thr Ser Asn Val

65					70						75				80
Gly	Thr	Ser	Gly	Asp	His	Asp	Asn	Ser	Phe	Met	Lys	Thr	Leu	Arg	Ser
				85					90					95	
Lys	Met	Gly	Lys	Trp	Cys	Cys	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser
			100					105					110		
Gly	Lys	Ser	Asn	Val	Gly	Thr	Trp	Gly	Asp	Tyr	Asp	Asp	Ser	Ala	Phe
		115					120					125			
Met	Glu	Pro	Arg	Tyr	His	Val	Arg	Arg	Glu	Asp	Leu	Asp	Lys	Leu	His
	130					135					140				
Arg	Ala	Ala	Trp	Trp	Gly	Lys	Val	Pro	Arg	Lys	Asp	Leu	Ile	Val	Met
145					150					155					160
Leu	Arg	Asp	Thr	Asp	Met	Asn	Lys	Arg	Asp	Lys	Gln	Lys	Arg	Thr	Ala
				165					170					175	
Leu	His	Leu	Ala	Ser	Ala	Asn	Gly	Asn	Ser	Glu	Val	Val	Gln	Leu	Leu
			180					185					190		
Leu	Asp	Arg	Arg	Cys	Gln	Leu	Asn	Val	Leu	Asp	Asn	Lys	Lys	Arg	Thr
		195					200					205			
Ala	Leu	Ile	Lys	Ala	Val	Gln	Cys	Gln	Glu	Asp	Glu	Cys	Val	Leu	Met
	210					215					220				
Leu	Leu	Glu	His	Gly	Ala	Asp	Gly	Asn	Ile	Gln	Asp	Glu	Tyr	Gly	Asn
225				230						235					240
Thr	Ala	Leu	His	Tyr	Ala	Ile	Tyr	Asn	Glu	Asp	Lys	Leu	Met	Ala	Lys
				245					250					255	
Ala	Leu	Leu	Leu	Tyr	Gly	Ala	Asp	Ile	Glu	Ser	Lys	Asn	Lys	Cys	Gly
			260					265					270		
Leu	Thr	Pro	Leu	Leu	Leu	Gly	Val	His	Glu	Gln	Lys	Gln	Gln	Val	Val
		275					280					285			
Lys	Phe	Leu	Ile	Lys	Lys	Lys	Ala	Asn	Leu	Asn	Ala	Leu	Asp	Arg	Tyr
	290					295					300				
Gly	Arg	Thr	Ala	Leu	Ile	Leu	Ala	Val	Cys	Cys	Gly	Ser	Ala	Ser	Ile
305					310					315					320
Val	Asn	Leu	Leu	Leu	Glu	Gln	Asn	Val	Asp	Val	Ser	Ser	Gln	Asp	Leu
				325					330					335	
Ser	Gly	Gln	Thr	Ala	Arg	Glu	Tyr	Ala	Val	Ser	Ser	His	His	His	Val
			340					345					350		
Ile	Cys	Glu	Leu	Leu	Ser	Asp	Tyr	Lys	Glu	Lys	Gln	Met	Leu	Lys	Ile

355					360					365					
Ser	Ser	Glu	Asn	Ser	Asn	Pro	Glu	Asn	Val	Ser	Arg	Thr	Arg	Asn	Lys
	370					375					380				
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Pro	Phe	Gly	Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp	Cys	Cys	Arg	Cys	Phe
			20					25					30		
Pro	Cys	Cys	Arg	Glu	Ser	Gly	Lys	Ser	Asn	Val	Gly	Thr	Ser	Gly	Asp
		35					40					45			
His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp
	50					55					60				
Cys	Arg	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser	Gly	Lys	Ser	Asn	Val
	65				70					75					80
Gly	Ala	Ser	Gly	Asp	His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Asn
				85					90					95	
Lys	Met	Gly	Lys	Trp	Cys	Cys	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser
			100					105					110		
Ser	Lys	Ser	Lys	Val	Gly	Ala	Trp	Gly	Asp	Tyr	Asp	Asp	Ser	Ala	Phe
		115					120					125			
Met	Glu	Pro	Arg	Tyr	His	Val	Arg	Gly	Glu	Asp	Leu	Asp	Lys	Leu	His
	130					135					140				
Arg	Ala	Ala	Trp	Trp	Gly	Lys	Val	Pro	Arg	Lys	Asp	Leu	Ile	Val	Met
	145				150					155					160
Leu	Arg	Asp	Thr	Asp	Val	Asn	Lys	Gln	Asp	Lys	Gln	Lys	Arg	Thr	Ala
				165					170					175	
Leu	His	Leu	Ala	Ser	Ala	Asn	Gly	Asn	Ser	Glu	Val	Val	Lys	Leu	Leu
			180					185					190		
Leu	Asp	Arg	Arg	Cys	Gln	Leu	Asn	Val	Leu	Asp	Asn	Lys	Lys	Arg	Thr
		195					200					205			
Ala	Leu	Ile	Lys	Ala	Val	Gln	Cys	Gln	Glu	Asp	Glu	Cys	Ala	Leu	Met
	210					215					220				

Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn
225 230 235 240

Thr Thr Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala Lys
245 250 255

Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly
260 265 270

Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln Val Val
275 280 285

Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr
290 295 300

Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile
305 310 315 320

Val Ser Leu Leu Leu Glu Gln Asn Ile Asp Val Ser Ser Gln Asp Leu
325 330 335

Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser His His His Val
340 345 350

Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys Ile
355 360 365

Ser Ser Glu Asn Ser Asn Pro Glu Asn Val Ser Arg Thr Arg Asn Lys
370 375 380

<210> 335

<211> 1185

<212> DNA

<213> Homo sapiens

<400> 335

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agcaacgtgg gcacttctgg agaccacgac gactctgcta tgaagacact caggagcaag 180
atgggcaagt ggtgccgcca ctgcttcccc tgctgcaggg ggagtggcaa gagcaacgtg 240
ggcgcttctg gagaccacga cgactctgct atgaagacac tcaggaacaa gatgggcaag 300
tggtgctgcc actgcttccc ctgctgcagg gggagcggca agagcaaggt gggcgcttgg 360
ggagactacg atgacagtgc ctcatggag cccagggtacc acgtccgtgg agaagatctg 420
gacaagctcc acagagctgc ctggtggggt aaagtcccca gaaaggatct catcgatcatg 480
ctcagggaca ctgacgtgaa caagaaggac aagcaaaaga ggactgctct acatctggcc 540
tctgccaatg ggaattcaga agtagtaaaa ctccctgctgg acagacgatg tcaacttaat 600
gtccttgaca acaaaaagag gacagctctg ataaaggccg tacaatgcca ggaagatgaa 660
tgtgcgttaa tgttgctgga acatggcact gatccaaata ttccagatga gtatggaaat 720
accactctgc actacgctat ctataatgaa gataaattaa tggccaaagc actgctctta 780
tatggtgctg atatcgaatc aaaaaacaag catggcctca caccactgtt acttgggtga 840
catgagcaaa aacagcaagt cgtgaaatct ttaatcaaga aaaaagcgaa tttaaata 900
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<210> 336
<211> 394
<212> PRT
<213> Homo sapiens
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<400>	336														
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Pro	Phe	Gly	Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp	Cys	Cys	Arg	Cys	Phe
			20					25					30		
Pro	Cys	Cys	Arg	Glu	Ser	Gly	Lys	Ser	Asn	Val	Gly	Thr	Ser	Gly	Asp
		35					40					45			
His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp
	50					55					60				
Cys	Arg	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser	Gly	Lys	Ser	Asn	Val
	65				70					75					80
Gly	Ala	Ser	Gly	Asp	His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Asn
				85					90					95	
Lys	Met	Gly	Lys	Trp	Cys	Cys	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser
			100					105					110		
Gly	Lys	Ser	Lys	Val	Gly	Ala	Trp	Gly	Asp	Tyr	Asp	Asp	Ser	Ala	Phe
		115					120					125			
Met	Glu	Pro	Arg	Tyr	His	Val	Arg	Gly	Glu	Asp	Leu	Asp	Lys	Leu	His
	130					135					140				
Arg	Ala	Ala	Trp	Trp	Gly	Lys	Val	Pro	Arg	Lys	Asp	Leu	Ile	Val	Met
	145				150					155					160
Leu	Arg	Asp	Thr	Asp	Val	Asn	Lys	Lys	Asp	Lys	Gln	Lys	Arg	Thr	Ala
				165					170					175	
Leu	His	Leu	Ala	Ser	Ala	Asn	Gly	Asn	Ser	Glu	Val	Val	Lys	Leu	Leu
			180					185					190		
Leu	Asp	Arg	Arg	Cys	Gln	Leu	Asn	Val	Leu	Asp	Asn	Lys	Lys	Arg	Thr
		195					200					205			
Ala	Leu	Ile	Lys	Ala	Val	Gln	Cys	Gln	Glu	Asp	Glu	Cys	Ala	Leu	Met
	210					215					220				
Leu	Leu	Glu	His	Gly	Thr	Asp	Pro	Asn	Ile	Pro	Asp	Glu	Tyr	Gly	Asn

225 230 235 240
 Thr Thr Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala Lys
 245 250 255
 Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly
 260 265 270
 Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln Val Val
 275 280 285
 Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr
 290 295 300
 Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile
 305 310 315 320
 Val Ser Leu Leu Leu Glu Gln Asn Ile Asp Val Ser Ser Gln Asp Leu
 325 330 335
 Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser His His His Val
 340 345 350
 Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys Ile
 355 360 365
 Ser Ser Glu Asn Ser Asn Pro Glu Asn Val Ser Arg Thr Arg Asn Lys
 370 375 380
 His His His His His His His His His His
 385 390

<210> 337
 <211> 34
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 337
 cggcgatcc accatggtgg ttgaggttga ttcc

34

<210> 338
 <211> 74
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

cggcctctaga ttaatggtga tggatgatgat gatggtgatg atgtttattt ctgggttcttg 60
agacattttc tggg 74

<211> 1166

<213> Homo sapiens

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agcaacgtgg	gcacttcttg	agaccacgac	gattctgcta	tgaagacact	caggagcaag	180
atgggcaagt	ggtgccgcca	ctgcttcccc	tggcgcaggg	ggagcagcaa	gagcaacgtg	240
ggcacttctg	gagaccacga	cgactctgct	atgaagacac	tcaggagcaa	gatgggcaag	300
tggcgtctgc	actgcttccc	ctgctgcagg	gggagcggca	agagcaaagt	gggcccttgg	360
ggagactacg	acgacagcgc	tttcatggag	ccgaggtacc	acgtccgtcg	agaagatctg	420
gacaagctcc	acagagctgc	ctggcggggg	aaagtcccca	gaaaggatct	catcgtcctg	480
ctcaaggaca	ctgacatgaa	caagaaggac	aagcaaaaaga	ggactgctct	acatctggcc	540
tctgccaatg	gaaattcaga	agtagtaaaa	ctcctgctgg	acagacgatg	tcaacttaat	600
atccttgaca	acaaaaagag	gacagctctg	acaaaggccg	tacaatgccg	ggaagatgaa	660
tgtgcgttaa	tgttgctgga	acatggcact	gatccgaata	ttccagatga	gtatggaaat	720
accgctctac	actatgctat	ctacaatgaa	gataaattaa	tggccaaaagc	actgctctta	780
tacggcgtctg	atatcgaatc	aaaaaacaag	catggcctca	caccactgtt	acttgggtgta	840
catgagcaaa	aacagcaagt	ggtgaaattc	ttaatcaaga	aaaaagcaaa	tttaaattgca	900
ctggatagat	atggaagaac	tgctctcata	cttgctgtat	gttgtggatc	ggcaagtata	960
gtcagccttc	tacttgagca	aaacattgat	gtatcttctc	aagatctatc	tggacagacg	1020
gccagagagt	atgctgtttc	tagctatcat	aatgtaattt	gccagttact	ttctgactac	1080
aaagaaaaac	agatgctaaa	agtctcttct	gaaaacagca	atccaggaaa	tgtctcaaga	1140
accagaaata	aataagggtg	gtgata				1166

<211> 384

<213> Homo sapiens

Met Val Ala Glu Ala Gly Ser Met Pro Ala Ala Ser Ser Val Lys Lys
5 10 15

Pro Phe Gly Leu Arg Ser Lys Met Gly Lys Trp Cys Arg His Cys Phe
20 25 30

Pro Trp Cys Arg Gly Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp
35 40 45

His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp
50 55 60

Cys Arg His Cys Phe Pro Trp Cys Arg Gly Ser Ser Lys Ser Asn Val
65 70 75 80

Gly Thr Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser

			85					90					95				
Lys	Met	Gly	Lys	Trp	Cys	Cys	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser		
			100						105						110		
Gly	Lys	Ser	Lys	Val	Gly	Pro	Trp	Gly	Asp	Tyr	Asp	Asp	Ser	Ala	Phe		
			115						120						125		
Met	Glu	Pro	Arg	Tyr	His	Val	Arg	Arg	Glu	Asp	Leu	Asp	Lys	Leu	His		
			130						135						140		
Arg	Ala	Ala	Trp	Trp	Gly	Lys	Val	Pro	Arg	Lys	Asp	Leu	Ile	Val	Met		
			145						150						155		
Leu	Lys	Asp	Thr	Asp	Met	Asn	Lys	Lys	Asp	Lys	Gln	Lys	Arg	Thr	Ala		
			165						170						175		
Leu	His	Leu	Ala	Ser	Ala	Asn	Gly	Asn	Ser	Glu	Val	Val	Lys	Leu	Leu		
			180						185						190		
Leu	Asp	Arg	Arg	Cys	Gln	Leu	Asn	Ile	Leu	Asp	Asn	Lys	Lys	Arg	Thr		
			195						200						205		
Ala	Leu	Thr	Lys	Ala	Val	Gln	Cys	Arg	Glu	Asp	Glu	Cys	Ala	Leu	Met		
			210						215						220		
Leu	Leu	Glu	His	Gly	Thr	Asp	Pro	Asn	Ile	Pro	Asp	Glu	Tyr	Gly	Asn		
			225						230						235		
Thr	Ala	Leu	His	Tyr	Ala	Ile	Tyr	Asn	Glu	Asp	Lys	Leu	Met	Ala	Lys		
			245						250						255		
Ala	Leu	Leu	Leu	Tyr	Gly	Ala	Asp	Ile	Glu	Ser	Lys	Asn	Lys	His	Gly		
			260						265						270		
Leu	Thr	Pro	Leu	Leu	Leu	Gly	Val	His	Glu	Gln	Lys	Gln	Gln	Val	Val		
			275						280						285		
Lys	Phe	Leu	Ile	Lys	Lys	Lys	Ala	Asn	Leu	Asn	Ala	Leu	Asp	Arg	Tyr		
			290						295						300		
Gly	Arg	Thr	Ala	Leu	Ile	Leu	Ala	Val	Cys	Cys	Gly	Ser	Ala	Ser	Ile		
			305						310						315		
Val	Ser	Leu	Leu	Leu	Glu	Gln	Asn	Ile	Asp	Val	Ser	Ser	Gln	Asp	Leu		
			325						330						335		
Ser	Gly	Gln	Thr	Ala	Arg	Glu	Tyr	Ala	Val	Ser	Ser	His	His	Asn	Val		
			340						345						350		
Ile	Cys	Gln	Leu	Leu	Ser	Asp	Tyr	Lys	Glu	Lys	Gln	Met	Leu	Lys	Val		
			355						360						365		
Ser	Ser	Glu	Asn	Ser	Asn	Pro	Gly	Asn	Val	Ser	Arg	Thr	Arg	Asn	Lys		

370

375

380

<210> 341
 <211> 876
 <212> DNA
 <213> Homo sapiens

<400> 341
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 tgcaagtggg gctgccactg cttccctgc tgcaggggga gcggcaagag caacgtgggc 180
 gcttggggag actacgatga cagcgcttc atggatccca ggtaccacgt ccatggagaa 240
 gatctggaca agctccacag agctgcctgg tggggtaaag tccccagaaa ggatctcatc 300
 gtcatgtctc gggacacgga tgtgaacaag agggacaagc aaaagaggac tgctctacat 360
 ctggcctctg ccaatgggaa ttcagaagta gtaaaactcg tgctggacag acgatgtcaa 420
 cttaatgtcc ttgacaacaa aaagaggaca gctctgacaa aggcctgaca atgccaggaa 480
 gatgaatgtg cgtaaatgtt gctggaacat ggcactgac caaatattcc agatgagtat 540
 ggaaatacca ctctacacta tgctgtctac aatgaagata aattaatggc caaagcactg 600
 ctcttatacg gtgctgatat cgaatcaaaa aacaagcatg gcctcacacc actgctactt 660
 ggtatacatg agcaaaaaa gcaagtgggtg aaatttttaa tcaagaaaaa agcgaattta 720
 aatgcgctgg atagatatgg aagaactgct ctcatacttg ctgtatgttg tggatcagca 780
 agtatagtca gccctctact tgagcaaaat gttgatgtat cttctcaaga tctggaaaga 840
 cggccagaga gtatgctgtt tctagtcac atcatg 876

<210> 342
 <211> 876
 <212> DNA
 <213> Homo sapiens

<400> 342
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 tgcaagtggg gctgccactg cttccctgc tgcaggggga gcggcaagag caacgtgggc 180
 gcttggggag actacgatga cagcgcttc atggatccca ggtaccacgt ccatggagaa 240
 gatctggaca agctccacag agctgcctgg tggggtaaag tccccagaaa ggatctcatc 300
 gtcatgtctc gggacactga tgtgaacaag agggacaagc aaaagaggac tgctctacat 360
 ctggcctctg ccaatgggaa ttcagaagta gtaaaactcg tgctggacag acgatgtcaa 420
 cttaatgtcc ttgacaacaa aaagaggaca gctctgacaa aggcctgaca atgccaggaa 480
 gatgaatgtg cgtaaatgtt gctggaacat ggcactgac caaatattcc agatgagtat 540
 ggaaatacca ctctacacta tgctgtctac aatgaagata aattaatggc caaagcactg 600
 ctcttatacg gtgctgatat cgaatcaaaa aacaagcatg gcctcacacc actgctactt 660
 ggtatacatg agcaaaaaa gcaagtgggtg aaatttttaa tcaagaaaaa agcgaattta 720
 aatgcgctgg atagatatgg aagaactgct ctcatacttg ctgtatgttg tggatcagca 780
 agtatagtca gccctctact tgagcaaaat gttgatgtat cttctcaaga tctggaaaga 840
 cggccagaga gtatgctgtt tctagtcac atcatg 876

<210> 343
 <211> 933
 <212> DNA
 <213> Homo sapiens

<400> 343
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gtgggcactt ctggagacca caacgactcc tctgtgaaga cgcttgggag caagaggtgc 180
aagtgggtgt gccactgctt cccctgctgc agggggagcg gcaagagcaa cgtgggcgct 240
tggggagact acgatgacag cgccttcatg gatcccaggt accacgtcca tggagaagat 300
ctggacaagc tccacagagc tgcttgggtg ggtaaagtcc ccagaaagga tctcatcgtc 360
atgctcaggg aactgatgt gaacaagagg gacaagcaaa agaggactgc tctacatctg 420
gcctctgcc aatgggaattc agaagtagta aaactcgtgc tggacagacg atgtcaactt 480
aatgtccttg acaacaaaaa gaggacagct ctgacaaaagg ccgtacaatg ccaggaagat 540
gaatgtgcgt taatgttgct ggaacatggc actgatccaa atattccaga tgagtatgga 600
aataccactc tacactatgc tgtctacaat gaagataaat taatggccaa agcactgctc 660
ttatacgggt ctgatatcga atcaaaaaac aagcatggcc tcacaccact gctacttggg 720
atacatgagc aaaaacagca agtggtgaaa tttttaatca agaaaaagc gaattttaat 780
gcgctggata gatatggaag aactgctctc atacttgcgt tatgttgggt atcagcaagt 840
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ccagagagta tgctgtttct agtcatcatc atg 933

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<210> 344

<211> 939

<212> DNA

<213> Homo sapiens

<400> 344

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agcaacgtgg gcacttctgg agaccacaac gactcctctg tgaagacgct tgggagcaag 180
aggtgcaagt ggtgctgcca ctgcttcccc tgctgcaggg ggagcggcaa gagcaacgtg 240
gtcgttggg gagactacga tgacagcgcc ttcattggatc ccaggtacca cgtccatgga 300
gaagatctgg acaagctcca cagagctgcc tggtggggta aagtccccag aaaggatctc 360
atcgtcatgc tcagggacac ggatgtgaac aagagggaca agcaaaagag gactgctcta 420
catctggcct ctgccaatgg gaattcagaa gtagtataaac tctgtctgga cagacgatgt 480
caacttaatg tccttgacaa caaaaagagg acagctctga caaaggccgt acaatgccag 540
gaagatgaat gtgcgttaat gttgctggaa catggcactg atccaaatat tccagatgag 600
tatggaaata ccactctaca ctatgctgtc tacaatgaag ataaattaat ggccaaagca 660
ctgctcttat acggtgctga tatcgaatca aaaaacaagc atggcctcac accactgcta 720
cttgggtatac atgagcaaaa acagcaagtg gtgaaatttt taatcaagaa aaaagcgaat 780
ttaaatgcgc tggatagata tggaagaact gctctcatalc ttgctgtatg ttgtggatca 840
gcaagtatag tcagccctct acttgagcaa aatgttgatg tatcttctca agatctggaa 900
agacggccag agagtatgct gtttctagtc atcatcatg 939

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<210> 345

<211> 292

<212> PRT

<213> Homo sapiens

<400> 345

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Met His Leu Ser Phe Pro Ala Phe Leu Pro Pro Trp Met Asp Arg Gly
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Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp His Asn Asp Ser Ser
      20              25              30

Val Lys Thr Leu Gly Ser Lys Arg Cys Lys Trp Cys Cys His Cys Phe
      35              40              45

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Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val Val Ala Trp Gly Asp
 50 55 60
 Tyr Asp Asp Ser Ala Phe Met Asp Pro Arg Tyr His Val His Gly Glu
 65 70 75 80
 Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp Gly Lys Val Pro Arg
 85 90 95
 Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys Arg Asp
 100 105 110
 Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser
 115 120 125
 Glu Val Val Lys Leu Val Leu Asp Arg Arg Cys Gln Leu Asn Val Leu
 130 135 140
 Asp Asn Lys Lys Arg Thr Ala Leu Thr Lys Ala Val Gln Cys Gln Glu
 145 150 155 160
 Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile
 165 170 175
 Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Val Tyr Asn Glu
 180 185 190
 Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu
 195 200 205
 Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu Leu Gly Ile His Glu
 210 215 220
 Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu
 225 230 235 240
 Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala Val Cys
 245 250 255
 Cys Gly Ser Ala Ser Ile Val Ser Pro Leu Leu Glu Gln Asn Val Asp
 260 265 270
 Val Ser Ser Gln Asp Leu Glu Arg Arg Pro Glu Ser Met Leu Phe Leu
 275 280 285
 Val Ile Ile Met
 290

<210> 346

<211> 292

<212> PRT

<213> Homo sapiens

Met	His	Leu	Ser	Phe 5	Pro	Ala	Phe	Leu	Pro 10	Pro	Trp	Met	Asp	Arg 15	Gly
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Val	Lys	Thr 35	Leu	Gly	Ser	Lys	Arg 40	Cys	Lys	Trp	Cys	Cys 45	His	Cys	Phe
Pro	Cys 50	Cys	Arg	Gly	Ser	Gly 55	Lys	Ser	Asn	Val	Gly 60	Ala	Trp	Gly	Asp
Tyr 65	Asp	Asp	Ser	Ala	Phe 70	Met	Asp	Pro	Arg	Tyr 75	His	Val	His	Gly	Glu 80
Asp	Leu	Asp	Lys	Leu 85	His	Arg	Ala	Ala	Trp 90	Trp	Gly	Lys	Val	Pro 95	Arg
Lys	Asp	Leu 100	Ile	Val	Met	Leu	Arg 105	Asp	Thr	Asp	Val	Asn	Lys 110	Arg	Asp
Lys	Gln 115	Lys	Arg	Thr	Ala	Leu	His 120	Leu	Ala	Ser	Ala	Asn 125	Gly	Asn	Ser
Glu 130	Val	Val	Lys	Leu	Val	Leu 135	Asp	Arg	Arg	Cys	Gln 140	Leu	Asn	Val	Leu
Asp 145	Asn	Lys	Lys	Arg	Thr 150	Ala	Leu	Thr	Lys	Ala 155	Val	Gln	Cys	Gln	Glu 160
Asp	Glu	Cys	Ala	Leu 165	Met	Leu	Leu	Glu	His 170	Gly	Thr	Asp	Pro	Asn 175	Ile
Pro	Asp	Glu 180	Tyr	Gly	Asn	Thr	Thr 185	Leu	His	Tyr	Ala	Val 190	Tyr	Asn	Glu
Asp	Lys 195	Leu	Met	Ala	Lys	Ala 200	Leu	Leu	Leu	Tyr	Gly 205	Ala	Asp	Ile	Glu
Ser	Lys 210	Asn	Lys	His	Gly	Leu 215	Thr	Pro	Leu	Leu	Leu 220	Gly	Ile	His	Glu
Gln 225	Lys	Gln	Gln	Val	Val 230	Lys	Phe	Leu	Ile	Lys 235	Lys	Lys	Ala	Asn	Leu
Asn	Ala	Leu	Asp	Arg 245	Tyr	Gly	Arg	Thr	Ala 250	Leu	Ile	Leu	Ala	Val 255	Cys
Cys	Gly	Ser 260	Ala	Ser	Ile	Val	Ser	Pro 265	Leu	Leu	Glu	Gln	Asn 270	Val	Asp
Val	Ser 275	Ser	Gln	Asp	Leu	Glu	Arg 280	Arg	Pro	Glu	Ser	Met 285	Leu	Phe	Leu

225 230 235 240
 Ile His Glu Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys Lys Lys
 245 250 255
 Ala Asn Leu Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu Ile Leu
 260 265 270
 Ala Val Cys Cys Gly Ser Ala Ser Ile Val Ser Pro Leu Leu Glu Gln
 275 280 285
 Asn Val Asp Val Ser Ser Gln Asp Leu Glu Arg Arg Pro Glu Ser Met
 290 295 300
 Leu Phe Leu Val Ile Ile Met
 305 310

<210> 348
 <211> 313
 <212> PRT
 <213> Homo sapiens

<400> 348
 Met Val Val Glu Val Asp Ser Met Pro Ala Ala Ser Ser Val Lys Lys
 5 10 15
 Pro Phe Gly Leu Arg Ser Lys Met Gly Lys Trp Cys Cys His Cys Phe
 20 25 30
 Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp
 35 40 45
 His Asn Asp Ser Ser Val Lys Thr Leu Gly Ser Lys Arg Cys Lys Trp
 50 55 60
 Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val
 65 70 75 80
 Val Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe Met Asp Pro Arg Tyr
 85 90 95
 His Val His Gly Glu Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp
 100 105 110
 Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp
 115 120 125
 Val Asn Lys Arg Asp Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser
 130 135 140
 Ala Asn Gly Asn Ser Glu Val Val Lys Leu Val Leu Asp Arg Arg Cys
 145 150 155 160

Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr Ala Leu Thr Lys Ala
165 170 175

Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly
180 185 190

Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr
195 200 205

Ala Val Tyr Asn Glu Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr
210 215 220

Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu
225 230 235 240

Leu Gly Ile His Glu Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys
245 250 255

Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu
260 265 270

Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile Val Ser Pro Leu Leu
275 280 285

Glu Gln Asn Val Asp Val Ser Ser Gln Asp Leu Glu Arg Arg Pro Glu
290 295 300

Ser Met Leu Phe Leu Val Ile Ile Met
305 310

<210> 349

<211> 30

<212> PRT

<213> Homo sapiens

<400> 349

Val Asn Lys Lys Asp Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser
1 5 10 15

Ala Asn Gly Asn Ser Glu Val Val Lys Leu Leu Leu Asp Arg
20 25 30

<210> 350

<211> 30

<212> PRT

<213> Homo sapiens

<400> 350

Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Lys Leu
1 5 10 15

Leu Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys
20 25 30

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<400> 351
Gly Ser Ala Ser Ile Val Ser Leu Leu Leu Glu Gln Asn Ile Asp Val
 1             5             10             15
Ser Ser Gln Asp Leu Ser Gly Gln Thr
      20             25
```

```
<400> 352
Val Val Glu Val Asp Ser Met Pro Ala Ala Ser Ser Val Lys Lys Pro
 1              5              10              15
Phe Gly Leu Arg
      20
```

```
<400> 353
Ser Met Pro Ala Ala Ser Ser Val Lys Lys Pro Phe Gly Leu Arg Ser
  1          5          10          15
Lys Met Gly Lys
      20
```

```
<400> 354
Ser Ser Val Lys Lys Pro Phe Gly Leu Arg Ser Lys Met Gly Lys Trp
 1          5          10          15
Cys Cys Arg Cys
      20
```

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<210> 355
<211> 20
<212> PRT
<213> Homo sapiens
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Pro Phe Gly Leu Arg Ser Lys Met Gly Lys Trp Cys Cys Arg Cys Phe
1 5 10 15
Pro Cys Cys Arg
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<213> Homo sapiens

Ser Lys Met Gly Lys Trp Cys Cys Arg Cys Phe Pro Cys Cys Arg Glu
 1 5 10 15
 Ser Gly Lys Ser
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<213> Homo sapiens

Trp Cys Cys Arg Cys Phe Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn
1 5 10 15
Val Gly Thr Ser
20

<213> Homo sapiens

Phe Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly
 1 5 10 15
 Asp His Asp Asp
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<213> Homo sapiens

Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp His Asp Asp Ser
1 5 10 15
Ala Met Lys Thr
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<400> 360
Asn Val Gly Thr Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu
 1          5          10          15
Arg Ser Lys Met
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```
<400> 361
Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly
 1          5          10          15
Lys Trp Cys Arg
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```

```
<400> 362
Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp Cys Arg His
  1             5             10             15
Cys Phe Pro Cys
      20
```

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<400> 363
Leu Arg Ser Lys Met Gly Lys Trp Cys Arg His Cys Phe Pro Cys Cys
 1          5          10          15
Arg Gly Ser Gly
      20
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<210> 364
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<212> PRT
<213> Homo sapiens
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Gly Lys Trp Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys
1 5 10 15
Ser Asn Val Gly
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<213> Homo sapiens

His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val Gly Ala
1 5 10 15
Ser Gly Asp His
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<213> Homo sapiens

Cys Arg Gly Ser Gly Lys Ser Asn Val Gly Ala Ser Gly Asp His Asp
1 5 10 15
Asp Ser Ala Met
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<213> Homo sapiens

Lys Ser Asn Val Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys
1 5 10 15
Thr Leu Arg Asn
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<213> Homo sapiens

Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Asn Lys
1 5 10 15
Met Gly Lys Trp
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<210> 369
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 <212> PRT
 <213> Homo sapiens

<400> 369
 Asp Asp Ser Ala Met Lys Thr Leu Arg Asn Lys Met Gly Lys Trp Cys
 1 5 10 15
 Cys His Cys Phe
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<210> 370
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 370
 Lys Thr Leu Arg Asn Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro
 1 5 10 15
 Cys Cys Arg Gly
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<210> 371
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 <212> PRT
 <213> Homo sapiens

<400> 371
 Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser
 1 5 10 15
 Gly Lys Ser Lys
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<210> 372
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 <212> PRT
 <213> Homo sapiens

<400> 372
 Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Lys Val
 1 5 10 15
 Gly Ala Trp Gly
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<210> 373
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 <213> Homo sapiens

<400> 373

Pro Cys Cys Arg Gly Ser Gly Lys Ser Lys Val Gly Ala Trp Gly Asp
 1 5 10 15
 Tyr Asp Asp Ser
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<210> 374

<211> 20

<212> PRT

<213> Homo sapiens

<400> 374

Ser Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala
 1 5 10 15
 Phe Met Glu Pro
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<210> 375

<211> 20

<212> PRT

<213> Homo sapiens

<400> 375

Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe Met Glu Pro Arg
 1 5 10 15
 Tyr His Val Arg
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<210> 376

<211> 20

<212> PRT

<213> Homo sapiens

<400> 376

Asp Tyr Asp Asp Ser Ala Phe Met Glu Pro Arg Tyr His Val Arg Gly
 1 5 10 15
 Glu Asp Leu Asp
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<210> 377

<211> 20

<212> PRT

<213> Homo sapiens

<400> 377

Ala Phe Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys
 1 5 10 15
 Leu His Arg Ala
 20

```
<400> 378
Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu His Arg Ala Ala
 1          5          10          15
Trp Trp Gly Lys
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```

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<400> 379
Gly Glu Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp Gly Lys Val
  1             5             10             15
Pro Arg Lys Asp
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<400> 380
Lys Leu His Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu
 1          5          10          15
Ile Val Met Leu
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<400> 381
Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met Leu Arg
 1          5          10          15
Asp Thr Asp Val
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<210> 382
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<213> Homo sapiens
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<400> 382

Val	Pro	Arg	Lys	Asp	Leu	Ile	Val	Met	Leu	Arg	Asp	Thr	Asp	Val	Asn
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Lys	Lys	Asp	Lys												
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<210> 383

<211> 20

<212> PRT

<213> Homo sapiens

<400> 383

Leu	Ile	Val	Met	Leu	Arg	Asp	Thr	Asp	Val	Asn	Lys	Lys	Asp	Lys	Gln
1				5					10					15	
Lys	Arg	Thr	Ala												
			20												

<210> 384

<211> 20

<212> PRT

<213> Homo sapiens

<400> 384

Arg	Asp	Thr	Asp	Val	Asn	Lys	Lys	Asp	Lys	Gln	Lys	Arg	Thr	Ala	Leu
1				5					10					15	
His	Leu	Ala	Ser												
			20												

<210> 385

<211> 20

<212> PRT

<213> Homo sapiens

<400> 385

Asn	Lys	Lys	Asp	Lys	Gln	Lys	Arg	Thr	Ala	Leu	His	Leu	Ala	Ser	Ala
1				5					10					15	
Asn	Gly	Asn	Ser												
			20												

<210> 386

<211> 20

<212> PRT

<213> Homo sapiens

<400> 386

Gln	Lys	Arg	Thr	Ala	Leu	His	Leu	Ala	Ser	Ala	Asn	Gly	Asn	Ser	Glu
1				5					10					15	
Val	Val	Lys	Leu												
			20												

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<210> 387
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 <213> Homo sapiens

<400> 387
 Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Lys Leu Leu
 1 5 10 15
 Leu Asp Arg Arg
 20

<210> 388
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 388
 Ala Asn Gly Asn Ser Glu Val Val Lys Leu Leu Leu Asp Arg Arg Cys
 1 5 10 15
 Gln Leu Asn Val
 20

<210> 389
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 389
 Glu Val Val Lys Leu Leu Leu Asp Arg Arg Cys Gln Leu Asn Val Leu
 1 5 10 15
 Asp Asn Lys Lys
 20

<210> 390
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 390
 Leu Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg
 1 5 10 15
 Thr Ala Leu Ile
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<210> 391
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 391

Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr Ala Leu Ile Lys
 1 5 10 15
 Ala Val Gln Cys
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<210> 392

<211> 20

<212> PRT

<213> Homo sapiens

<400> 392

Leu Asp Asn Lys Lys Arg Thr Ala Leu Ile Lys Ala Val Gln Cys Gln
 1 5 10 15
 Glu Asp Glu Cys
 20

<210> 393

<211> 20

<212> PRT

<213> Homo sapiens

<400> 393

Arg Thr Ala Leu Ile Lys Ala Val Gln Cys Gln Glu Asp Glu Cys Ala
 1 5 10 15
 Leu Met Leu Leu
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<210> 394

<211> 20

<212> PRT

<213> Homo sapiens

<400> 394

Lys Ala Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met Leu Leu Glu
 1 5 10 15
 His Gly Thr Asp
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<210> 395

<211> 20

<212> PRT

<213> Homo sapiens

<400> 395

Gln Glu Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro
 1 5 10 15
 Asn Ile Pro Asp
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<210> 396
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 396
 Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp Glu
 1 5 10 15
 Tyr Gly Asn Thr
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<210> 397
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 397
 Glu His Gly Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn Thr Thr
 1 5 10 15
 Leu His Tyr Ala
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<210> 398
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 398
 Pro Asn Ile Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Ile
 1 5 10 15
 Tyr Asn Glu Asp
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<210> 399
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 399
 Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys
 1 5 10 15
 Leu Met Ala Lys
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<210> 400
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 <212> PRT
 <213> Homo sapiens

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<400> 400
Thr Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala Lys Ala
 1                               10                      15
Leu Leu Leu Tyr
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<211> 20

<212> PRT

<213> Homo sapiens

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<400> 401
Ile Tyr Asn Glu Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly
 1              5              10              15
Ala Asp Ile Glu
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<210> 402

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<212> PRT

<213> Homo sapiens

<400> 402

Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser
1 5 10 15
Lys Asn Lys His
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<210> 403

<211> 20

<212> PRT

<213> Homo sapiens

<400> 403

Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly
1 5 10 15
Leu Thr Pro Leu
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<210> 404

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<212> PRT

<213> Homo sapiens

<400> 404

Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu
1 5 10 15
Leu Gly Val His
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<210> 405
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 405
 Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu Leu Gly Val His Glu
 1 5 10 15
 Gln Lys Gln Gln
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<210> 406
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 406
 Gly Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln Val
 1 5 10 15
 Val Lys Phe Leu
 20

<210> 407
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 407
 Leu Leu Gly Val His Glu Gln Lys Gln Gln Val Val Lys Phe Leu Ile
 1 5 10 15
 Lys Lys Lys Ala
 20

<210> 408
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 408
 Glu Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys Lys Lys Ala Asn
 1 5 10 15
 Leu Asn Ala Leu
 20

<210> 409
 <211> 20
 <212> PRT
 <213> Homo sapiens

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<400> 409

Val Val Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Ala Leu Asp
 1 5 10 15
 Arg Tyr Gly Arg
 20

<210> 410

<211> 20

<212> PRT

<213> Homo sapiens

<400> 410

Ile Lys Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr Gly Thr Arg
 1 5 10 15
 Ala Leu Ile Leu
 20

<210> 411

<211> 20

<212> PRT

<213> Homo sapiens

<400> 411

Asn Leu Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala
 1 5 10 15
 Val Cys Cys Gly
 20

<210> 412

<211> 20

<212> PRT

<213> Homo sapiens

<400> 412

Asp Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser
 1 5 10 15
 Ala Ser Ile Val
 20

<210> 413

<211> 20

<212> PRT

<213> Homo sapiens

<400> 413

Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile Val Ser
 1 5 10 15
 Leu Leu Leu Glu
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<210> 414
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 414
 Ala Val Cys Cys Gly Ser Ala Ser Ile Val Ser Leu Leu Leu Glu Gln
 1 5 10 15
 Asn Ile Asp Val
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<210> 415
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 415
 Ser Ala Ser Ile Val Ser Leu Leu Leu Glu Gln Asn Ile Asp Val Ser
 1 5 10 15
 Ser Gln Asp Leu
 20

<210> 416
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 416
 Ser Leu Leu Leu Glu Gln Asn Ile Asp Val Ser Ser Gln Asp Leu Ser
 1 5 10 15
 Gly Gln Thr Ala
 20

<210> 417
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 417
 Gln Asn Ile Asp Val Ser Ser Gln Asp Leu Ser Gly Gln Thr Ala Arg
 1 5 10 15
 Glu Tyr Ala Val
 20

<210> 418
 <211> 20
 <212> PRT
 <213> Homo sapiens

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Ser Ser Gln Asp Leu Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser
1 5 10 15
Ser His His His
20

<213> Homo sapiens

Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser His His His Val
1 5 10 15
Ile Cys Gln Leu
20

<213> Homo sapiens

Arg Glu Tyr Ala Val Ser Ser His His His Val Ile Cys Gln Leu Leu
1 5 10 15
Ser Asp Tyr Lys
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<213> Homo sapiens

Ser Ser His His His Val Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu
1 5 10 15
Lys Gln Met Leu
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<213> Homo sapiens

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Val Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys
  1                               5          10          15
Ile Ser Ser Glu
          20
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<210> 423
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 423
 Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys Ile Ser Ser Glu Asn
 1 5 10 15
 Ser Asn Pro Glu
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<210> 424
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 424
 Glu Lys Gln Met Leu Lys Ile Ser Ser Glu Asn Ser Asn Pro Glu Asn
 1 5 10 15
 Val Ser Arg Thr
 20

<210> 425
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 425
 Met Leu Lys Ile Ser Ser Glu Asn Ser Asn Pro Glu Asn Val Ser Arg
 1 5 10 15
 Thr Arg Asn Lys
 20

<210> 426
 <211> 33
 <212> PRT
 <213> Homo sapiens

<400> 426
 Ser Lys Met Gly Lys Trp Cys Cys Arg Cys Phe Pro Cys Cys Arg Glu
 1 5 10 15
 Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp His Asp Asp Ser Ala
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 Met

<210> 427
 <211> 33
 <212> PRT
 <213> Homo sapiens

<400> 427

Ser	Lys	Met	Gly	Lys	Trp	Cys	Arg	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly
1				5					10					15	
Ser	Gly	Lys	Ser	Asn	Val	Gly	Ala	Ser	Gly	Asp	His	Asp	Asp	Ser	Ala
			20					25					30		

Met

<210> 428

<211> 33

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<213> Homo sapiens

<400> 428

Asn	Lys	Met	Gly	Lys	Trp	Cys	Cys	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly
1				5					10					15	
Ser	Gly	Lys	Ser	Lys	Val	Gly	Ala	Trp	Gly	Asp	Tyr	Asp	Asp	Ser	Ala
			20					25					30		

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